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GREAT II. FISH AND WILDLIFE MANAGEMENT WORK GROUP ANNOTATED BIB--ETC(U)
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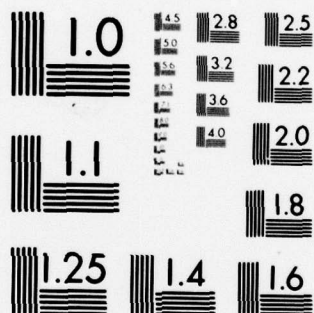
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CARLANDER, H. B. and K. D. CARLANDER. 1951. A piscatorial summer

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Introduction

This bibliography is an addendum to the GREAT II Annotated Bibliography of Fish and Wildlife Resources of the Upper Mississippi River. The citations in this addendum were not included in the Annotated Bibliography because, at the time of submission (22 June 1979) their abstracts were not available.

Several of the citations in this addendum have abstracts included; however, the majority do not have abstracts. With each citation for which there is no abstract, an explanation is provided.

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BIBLIOGRAPHY

AUTHORS

HAZLETON ENVIRONMENTAL SCIENCES

AMMERMAN, H. A. 1975. A comprehensive age and growth study of the white bass (Morone chrysops) collected in 1974 from Cedar Lake and St. Croix in Wisconsin., M. A. Thesis.

Abstract: Insufficient citation; could not locate.

Keywords: Age and growth, Fish, Wisconsin

ANDERSON, G. E. 1976. Analysis of the scour problem below Locks and Dam 26 at Alton, Illinois for Burlington Northern Railroad. W. RR. Traf. Assoc., Chicago.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26, Flow, Hydrology

ANDERSON, H. W., D. F. FARREL, W. L. BROUSSARD and M. F. HUNT. 1975. Water resources of the Zumbro River water shed, Southeast Minnesota. U.S. Geol. Sur. Hydrologic Invest. Atlas HA-543.

Abstract: Insufficient citation; could not locate.

Keywords: Hydrology

ANDING, M. G. 1966. Potamology studies, hydraulic analysis of Mississippi River channels. Tech. Rept. No. 1, U.S. Army, Corps of Eng. Comm. Chan. Stab. Vol. 4, Chap. III.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Hydraulics

APPLETON, J. B. 1930. The declining significance of the Mississippi as a commercial highway in the middle of the nineteenth century. Geog. Soc. Phila. Bull. 28 (October, 1930): 267-284.

Abstract: Insufficient citation; could not locate.

Keywords: Commercial boat traffic

HAZLETON ENVIRONMENTAL SCIENCES

ARMSTRONG, R. C. 1970. Replacement--Lock and Dam No. 26: Plans Considered. Jour. Waterways and Harbors Div. ASCE, Vol. 96. (WW1): 49-64.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26

HAZLETON ENVIRONMENTAL SCIENCES

BAILEY, R. M. 1951. A check list of the fishes of Iowa, with keys for identification. In: Iowa Fish and Fishing, by J. R. Harlan and E. B. Speaker, Ia. Cons. Comm., pp. 187-238, 9 figs.

Abstract: Identification keys which have been revised through repeated use with the many errors having been eliminated. This list comprises 25 families, 61 genera, 133 species and 137 total kinds including subspecies of native fishes.

Keywords: Fish, Taxonomy, Iowa, Identification

BAILEY, R. M. 1956. A revised list of the fishes of Iowa with keys for identification. In: Iowa Fish and Fishing, 3rd Ed., by J. R. Harlan and E. B. Speaker, Ia. Cons. Comm., 327-377 pp.

Abstract: A revised list of the identification key made in 1951. The list was changed because the common taxonomic practice of dividing geographically variable species into named races, or subspecies, has been subjected to critical scrutiny.

Keywords: Fish, Taxonomy, Iowa, Identification

BAILEY, R. M., and E. B. SPEAKER. 1946. Fisheries of Iowa. In: Wildlife Resources of Iowa. St. of Ia., Des Moines, pp. 7-24.

Abstract: Non-game food fish are estimated to far exceed the total poundage of total game fish. Carp and buffalofish rank as the most important. Half of the non-game fish of Iowa are members of the sucker family. Among the game and panfish the catfishes are the most important. Eight species of the sunfish family are large enough to be desirable and common enough to be caught in numbers in Iowa. Mussels are a common source of income for Iowa families, with the shells used in the pearl button industry. In addition to fish, there are other wild cold-blooded animals which are excellent to eat, but little used in Iowa. Turtles, frogs and crayfish are found in high enough abundance to be a good food source.

Keywords: Fish, Mussels, Sport fishing

HAZLETON ENVIRONMENTAL SCIENCES

BAILEY, V. 1930. Food for Game, Life Zones of Upper Mississippi River Refuge, The Mississippi Wildlife Refuge (Sec. R), and Vegetation of the Upper Mississippi Wildlife Refuge. Mimeo Paps. from files, Winona, MN.

Abstract: Written request sent; no response.

Keywords: Upper Mississippi River Wildlife and Fish Refuge, Vegetation, Food habits

BARCLAY, H. G. 1924. The plant succession of the flood plain of the Mississippi River with special reference to the pioneer stage. M.A. Thesis. Univ. of Minn. 91 pp.

Abstract: A study of plant succession in a given area, even though a similar progression has been worked out in other regions, is sure to disclose new facts and interesting problems. The aim of this paper is to present the data and conclusions of a study of the flood plain succession of the Mississippi River valley between Minneapolis and St. Paul, carried on in the period from 1921 to 1924. The problem was selected because it afforded unusually good opportunities for the study of the early stage, especially the behavior of the cottonwood, various species of which are important pioneers in such places throughout the continent.

Keywords: Succession, Vegetation

BARNEY, R. L. 1924. Notes from the Fairport (Iowa) Station. Fisheries Service Bulletin No. 105, February, 1924, 2 pp. U.S. Bureau of Fisheries. Washington.

Abstract: Reference source located; article not within.

Keywords: Fish

BARNICKOL, P. G. 1958. Pollution and the aquatic life in our streams with special reference to mine pollution. In: Selected papers from the Air and Water Poll. Cont., Univ. of Mo. Eng. Exper. Sta., Eng. Series Bull., 45:17-20.

Abstract: Written request sent; no response.

Keywords: Pollution, Ecology, Mining

HAZLETON ENVIRONMENTAL SCIENCES

BARON, N. J., E. J. CECIL and P. L. TIDEMAN. 1972. A survey of attitudes towards the Mississippi River as a total resource in Minnesota, Water Resource Research Center. Univ. Minn., Minneapolis, MN. 160 p.

Abstract: Written request sent; no response.

Keywords: Recreation, Commercial boat traffic

BATES, C. G. 1931. Chaining the father waters. Amer. Forests, 36(2).

Abstract: Reference source located; article not within.

Keywords: Impoundment, Hydrology

BATES, C. G. 1932. Farms, Floods and River Navigation in the Mississippi Valley. Commerce, Sept. and Oct.

Abstract: Reference source located; article not within.

Keywords: Agriculture, Flood, Navigation

BENTLEY, B. W. 1973. Radiation doses around nuclear facilities. Presented at IES Conf., Anaheim, Calif., Apr. 2-5, 1973. p. 141.

Abstract: Insufficient citation; could not locate.

Keywords: Nuclear power, Pollution, Toxicant, Missouri River

BERTRAND, B. A. 1974. Fish Population Surveys of Stations in Pools 12, 13, 14, 16, 18 and 19; Grand Tower Chute and Cape Bend Chute. Ill. Dept. Cons., Div. Fish.

Abstract: Series of data sheets; no narrative.

Keywords: Fish, Pools 12, 13, 14, 16, 18, 19

BERTRAND, B. A. 1976. Green Bay Levee-Values for fisheries in Pool 19. Memo to Dick Lutz dated 3-1-76. Ill. Dept. Cons., Div. Fish., Streams Proj. Aledo., unpub. mimeo. 18 tables.

Abstract: Interdepartmental memo not released to public.

Keywords: Pool 19, Fish

HAZLETON ENVIRONMENTAL SCIENCES

BERTRAND, B. A. and B. DUNN. 1973. Fish population survey of aquatic habitat types in Pool 25 of the Mississippi River. Ill. Dept. Cons., Div. Fish. unpub. mimeo. 12 pp.

Abstract: This study was undertaken as part of a larger survey to learn more about habitat preference of the various species of fish in the Mississippi River. With a knowledge of which habitats are most important to the fisheries of the river, we can better protect both sport and commercial fishing by prevention of destruction of these habitats by industrial and navigational interests. We can also promote more productive use of the sport fishery, if we know which habitats have the best sport fish populations.

Five stations in Pool 25 were sampled once each month from April through October with a 230 V AC shocker. Minnow seine samples were collected at each station in July. Each station sampled was a different habitat type: main channel border, side channel, lake, slough, and tailwater. Physical-chemical data was recorded on Mississippi River Investigations forms and maps of the stations drawn on the backs of these forms. Sample data was recorded on population analysis forms attached to the investigations forms.

Keywords: Fish, Habitat, Pool 25

BLACKWELDER, B. and J. MARLIN. 1975. Some facts about Locks and Dam 26 and its impact on the Upper Mississippi River Basin. Coun. for a Sound Waterway Policy. Chicago. p. 4

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26

BOLSENGA, S. J. 1968. River ice jams (a literature review). Lake Survey District, Corps of Engineers.

Abstract: Published information on river ice jams in many areas of the world was collected, examined, and summarized during this investigation. All manuscripts were collected and examined without regard to their apparent pertinence. The result provides a summarization of both current and historical information on the ice jam mechanism and methods of prevention and removal.

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Descriptions of ice jam characteristics range from mathematical to narrative treatments. Methods of prevention and removal range from dusting and thermal pollution to the more widely used blasting. Trends in the use of these techniques are indicated.

The lack of success in applying prevention and removal techniques seems to be due to lack of basic information in ice jam characteristics. The results of this report can be useful in that field since a guideline for future research planning is provided.

Keywords: Climatology, Ice

BREHMER, M. L. 1953. Illinois and Mississippi Canal fisheries investigation report. Ill. Dept. Cons. D-J Proj. No. F-1-R-1. 83 pp.

Abstract: Written request sent; could not locate.

Keywords: Fish, Illinois

BRICELAND, R. C. 1976. Statement to the task force on Locks and Dam 26 of the Midwestern Conference, Coun. of St. Govts., Clayton, Mo.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26

BROOK, A. J. 1971. Attached algae studies on the Mississippi River at Monticello - interim report. In Northern States Power Company environmental report, Monticello Nuclear Generating Plant, Northern States Power Company, Minneapolis, MN. 4 p.

Abstract: The attached algae studies in the river determine the periphyton abundance at different sampling locations in the river where there are significant differences in current speed, since it is necessary to know how important this factor is in determining the composition and abundance of the attached algal community.

Presently 12 stations are being observed in a reach of the river about six miles long extending from about 1/2 mile above the plant water intake structure to approximately two miles below the Highway #25 bridge in the

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City of Monticello. The sampler at each station holds two microscope slides upon which the algal flora attach themselves, and these slides are changed every two weeks.

The biological determinations that are made with respect to the algal sampling are these: biomass by weight, chlorophyll content, and direct counts and identifications.

Keywords: Periphyton, Nuclear power, Minnesota

BRUTON, C. 1971. The amphibians on two islands in the Mississippi River at Monticello, Minnesota. Unpublished report, St. Cloud State College.

Abstract: Written request sent; not available.

Keywords: Amphibians, Minnesota

BURWELL, R. W. 1964. Letter to St. Paul district engineer regarding evaluation of culverts installed to aerate sloughs blocked by dikes. May 20, 1964. USDI, 4 pp.

Abstract: Unable to locate in major midwestern libraries. Written request to Washington, D.C.; no response.

Keywords: Slough, Dike

HAZLETON ENVIRONMENTAL SCIENCES

CARLANDER, H. B. and K. D. CARLANDER. 1951. A piscatorial summer of 1878. by George Barton Berrell. Mo. Hist. Soc. Bull. 7(July, 1951): 413-439 pp.

Abstract: A narrative summary of the fishing diary of George Barton Berrell which gives an accurate account of eighteen fishing trips in the St. Louis area in 1878. The dairy includes places he fished, friends he fished with, fish caught and their weight.

Keywords: History, Fishing

CARLSON, C. A., R. P. MEYER and C. R. FREMLING. 1959. Allocreadiid flukes of mayflies of the Mississippi River. Midwest Wildl. Cons. mimeo 213 p.

Abstract: Insufficient citation; could not locate.

Keywords: Parasites, Mayflies, Invertebrates

CARLSON, H. 1967. Water resources development in the Upper Mississippi River basin. The Minnesota Engineer, 18(1).

Abstract: Written request sent; could not locate.

Keywords: Upper Mississippi River, Hydrology

CHAMBERS, J. 1910. The Mississippi River and its wonderful valley; twenty-seven hundred and seventy-five miles from source to sea. New York & London, xvi. 308 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Recreation

CLAFLIN, T. O., 1973. Environmental assessment - Navigation Pool 8. Mimeographed report to the U.S. Army Corps of Engineers. River Studies Center, University of Wisconsin - LaCrosse, WI.

Abstract: Phone request; no response.

Keywords: Pool 8, Survey

CLAFLIN, T. O. 1977a. Lake Onalaska: how much longer? River Studies Cent. Newsletter, Univ. Wis., LaCrosse. Vol. 5, No. 6, May-June.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Phone request; no response.

Keywords: Lake Onalaska

CLAFLIN, T. O. 1977b. Lake Onalaska Rehabilitation Feasibility Study. River Studies Cent., Univ. Wisconsin - LaCrosse. 43 pp.

Abstract: Phone request; no response.

Keywords: Lake Onalaska, Management

CLEARY, R. E. 1958. A summary of angling statistics on the Mississippi River, March, 1957-February, 1958, with comparisons with 1956 data. Iowa Cons. Comm., Job Compl. Rept. Proj. F-24-R-3. 15 pp.

Abstract: Written request sent; no response.

Keywords: Fish, Distribution, Creel census

CLEARY, R. E. and F. J. PIERCE. 1960. A compendium of fisheries information on the Mississippi River bordering Iowa, 1956-1958. Biol. Sect., Ia. Cons. Comm. Mimeo.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Iowa

COCHRAN, P. A. 1977. Feeding habits and length-weight relationships in spiny softshell turtles from selected areas in Pool 5, 5A and 6 of the Upper Mississippi River. Pap. Pres. at Miss. River. Res. Consort., Winona, MN., June 8-10, 1977.

Abstract: Written request sent; abstract unavailable.

Keywords: Reptiles, Turtles, Length-weight, Food habits, Pools 5, 5A and 6

COKER, R. E. 1923. Mathuselah of the Mississippi (paddlefish). Scientific Monthly, 16:89-103.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Paddlefish

HAZLETON ENVIRONMENTAL SCIENCES

CONNETT, E. V. (Ed.) 1949. Wildfowling in the Mississippi flyway.
D. Van Nostrand Co., Inc., New York. 387 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Waterfowl

COX, U. O. 1897. A preliminary report on the fishes of Minnesota.
Geol. Nat. Hist. Surv., Minnesota.

Abstract: Written request sent; no response.

Keywords: Fish, Minnesota

HAZLETON ENVIRONMENTAL SCIENCES

DAHLQUIST, K. 1970. A study of invertebrate recolonization of artificial substrata. Unpublished graduate "Special Problems Research Project," Department of Biology, St. Cloud State College, St. Cloud, Minnesota.

Abstract: Written request sent; could not locate.

Keywords: Invertebrates, Research, Reproduction, Recolonization

DALEY, S. A. 1961. Notes of sauger and walleye natural reproduction in the Mississippi River. Minn. Cons. Dept., Mimeo., unpublished. 12 pp.

Abstract: Written request sent; no response.

Keywords: Fish, Reproduction, Sauger, Walleye

DECKER, E. R. 1970. Replacement--Lock and Dam 26: history, objectives, and scope. Jour. Waterways, Har. and Coastal Eng. Div., ASCE, Vol. 96. (WW1):1-8.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26, History, Management

DECOOK, R. and R. E. CLEARY. 1960. Angler utilization-Mississippi River-1960. Iowa Cons. Comm. Mimeo., unpublished. 5 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Creel census, Sport fishing

DEGENHARDT, E. A. (no date). Application of color infrared photography to the Mississippi River. Pap. pres. 26th Ann. Potom. Conf., U.S. Army Corps of Eng. LMVD, Vicksburg. 12 pp.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Survey, Remote sensing

DIEFFENBACH, W. H. 1969. Evaluation of existing data and its implications on Pool 25. Pap. Pres. at Miss. Riv. Res. Consort., Symp. on proposed 12-foot channel. LaCrosse, WI. July 6, 1969.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Written request sent; no response.

Keywords: Pool 25

DODGE, A. W., W. J. BRECKENRIDGE, A. F. FULLERTON and D. W. WARNER. 1972. The birds of the Minneapolis-St. Paul region. Bell Museum of Natural History. Univ. of Minn., Minneapolis, MN. 29 pp.

Abstract: Written request sent; no response.

Keywords: Birds, Survey, Minnesota

DRAKE, J. and J. N. WILSON. 1948. Pollution of the Mississippi River, Hastings to LaCrosse, Nov. 1947 - Jan 1948. Minn. Dept. Health, Div. Water Poll. Control. Mimeo-graphed Rpt.

Abstract: Written request sent; no response.

Keywords: Pollution, Minnesota

DUNCAN, R. and G. ESSE. 1978. Polychlorinated biphenyls in Pool 9 of the Upper Mississippi River. B.A. Thesis. Luther College, Decorah, IA. 20 p.

Abstract: The purpose of this study was to examine organisms and sediment from Pool 9 of the Upper Mississippi River for the presence of PCB's. There has been insufficient monitoring for PCB's in this section of the river. The organisms were selected because of their great abundance in the river and their significance in the food web. The objective of this study was to compare the PCB levels found in this section of the river with those found in other sections of the Upper Mississippi River.

Keywords: Polychlorinated hydrocarbons, Pool 9

DUNHAM, L. L. 1970. Mississippi River access areas. A guide to public and private access areas along the Illinois portion of the Mississippi River. Ill. Dept. Cons. Memo. 24 pp.

Abstract: A description of boating access areas on the Mississippi River. Included are car parking facilities, fees charged, access use, and location.

Keywords: Recreational boat traffic, Illinois

HAZLETON ENVIRONMENTAL SCIENCES

ECKBLAD, J. W. 1974. Preliminary studies on the ecology of Big Lake of Pool 9, Upper Mississippi River. Pap. Pres. at Ann. Mtg. Ia. Acad. Sci., Fayette, IA.

Abstract: During the summers of 1973 and 1974 the benthos, morphometry and sedimentation of Big Lake were studied. Sphaerium and Hexagenia comprised 81% of the benthic biomass. From 1896 to 1973 approximately 76 cm of sediment had accumulated.

Keywords: Benthos, Sedimentation, Ecology

ECKBLAD, J. W. 1975. Water quality studies of northeast Iowa: the Upper Iowa River watershed and Pool 9 of the Mississippi River. Pap. Pres. at Conf. on Water Qual. in Iowa streams, Ia. St. Water Res. Inst., Ames, IA. March 4, 1975.

Abstract: Written request sent; could not locate.

Keywords: Water quality, Iowa, Pool 9

ECKBLAD, J. W. 1978. Laboratory manual of aquatic biology. Wm. M. Brown Co., Dubuque, IA. 232 p.

Abstract: Phone request; no response.

Keywords: Ecology, Population, Limnology

ECKBLAD, J. W., T. COON, and P. TRYGSTAD. 1976. Growth and abundance of Unionacea mussels in Pools 8, 9, and 10 of the Upper Mississippi River. Pap. Pres. at 24th Ann. Mtg. N. Am. Benthological Soc., LaCrosse, WI., March 24-26, 1976.

Abstract: Phone request; no response.

Keywords: Mussels, Benthos, Pools 8, 9 and 10, Age and growth, Abundance

EDDY, S. and K. D. CARLANDER. 1942. Growth rate studies of Minnesota fish. Project reports, Works Progress Administration and Univ. Minnesota, 1936-1942.

Abstract: Written request sent; no response.

Keywords: Age and growth, Fish, Minnesota

HAZLETON ENVIRONMENTAL SCIENCES

EDDY, S., J. B. MOYLE, and J. C. UNDERHILL. 1963. The fish fauna of the Mississippi River above St. Anthony Falls as related to the effectiveness of this falls as a migration barrier. Proc. Minn. Acad. Sci., 32(2):111-115.

Abstract: Written request sent; could not locate.

Keywords: Life history, St. Anthony Falls, Fish, Migration

ELLIS, M. M. 1931. A survey of conditions affecting fisheries in the Upper Mississippi River, U.S. Bur. Fish Circ. 5:1-18.

Abstracts: Unable to locate in major midwestern libraries. Written request to Washington, D.C.; no response.

Keywords: Fish, Survey, Upper Mississippi River, Water quality

ELSTAD, K. 1977. Benthic macroinvertebrate relationships in navigation Pool 8, Upper Mississippi River 1975. Pap. Pres. at Miss. Riv. Res. Consortium Ann. Mtg., June 8-10, 1977, Winona, MN.

Abstract: Written request sent; could not locate.

Keywords: Benthos, Pool 8

HAZLETON ENVIRONMENTAL SCIENCES

FEAGIN, L. B. 1966. Program of the Mississippi River Commission. Tech. Rept. No. 1, Corps of Eng. Comm. on Chan. Stab. Vol. 4, Chap. V.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Management

FELT, R. 1977. The Pool 2 story-water quality dilemma. Proc. 33rd Ann. UMRCC Mtg. 67-70 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Pool 2, Water quality

FINKE, A. H. 1966. Report of a mussel survey in Pools 4A (Lake Pepin), 5, 6, 7, and 9 of the Mississippi River during 1965. Wis. Cons. Dept. Rept. unpub. mimeo. 5 pp. + maps and tables.

Abstract: Phone request; no response.

Keywords: Mussels, Benthos, Pools 4A, 5, 6, 7 and 9, Lake Pepin, Survey

FISK, H. N. 1947. Fine-grained alluvial deposits and their effects on Mississippi River activity. 2 Vols., U.S. Army Corps of Engr., Waterways Exp. Sta. Vicksburg.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Sedimentation, Commercial boat traffic

FREMLING, C. R. and D. R. MCCONVILLE. 1976. The feasibility and environmental effects of opening side channels in three areas of the Upper Mississippi River (West Newton Chute, Fountain City Bay, and Sam Gordy's Slough). Quart. Prog. Rept., USFWS Contr. No. 14-16-088-949.

Abstract: Unable to locate in major midwestern libraries. Written request to Washington, D.C.; no response.

Keywords: Side channel, Upper Mississippi River

HAZLETON ENVIRONMENTAL SCIENCES

FRY, J. P. 1962. Harvest of fish from tailwaters of three large impoundments in Missouri. Proc. 16th S.E. Assoc. Game and Fish Comm. pp. 398-404.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Tailwater, Missouri, Impoundment

HAZLETON ENVIRONMENTAL SCIENCES

GEIS, A. D. 1971. Breeding and wintering areas of Mallards harvested in various states and provinces. U.S. Fish and Wildl. Serv. Spec. Sci. Rept. Wildl. No. 144.

Abstract: Band recoveries from mallards banded in breeding and wintering areas, weighted to reflect the population sizes they represent, were used to estimate the relative contribution of various breeding and wintering areas to the harvest in each State and Province. Sources of population data in addition to conventional waterfowl breeding population surveys were utilized resulting in larger continent-wide population estimates than those previously published. The estimates of the relative importance of various breeding and wintering areas to the kill in each State and Province are presented in a series of tables. Patterns among States in the similarity or the dissimilarity in the source of harvest are mentioned.

Keywords: Ducks, Waterfowl, Wintering, Mallard

GEIS, A. D. and S. M. CARNEY. 1961. Results of duck-wing collection in the Mississippi flyway, 1959-1960. Special Scientific Report-Wildlife No. 54. U.S. Dept. of Interior, Washington, D.C.

Abstract: Written request sent; could not locate.

Keywords: Survey, Ducks, Mississippi River Waterfowl Area

GIBBS, O., JR. 1869. Lake Pepin fish-chowder. In: Letters to General Spinner. H. D. McIntyre and Co., New York. 142 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Lake Pepin, Fish

GREEN, W. E. 1947. Distribution of marsh and aquatic plants on the Upper Mississippi River Wildlife Refuge. U.S.D.I. Bur. Sport Fish. and Wildl. Winona, MN. 132 p.

Abstract: Written request sent; could not locate.

Keywords: Distribution, Aquatic plants, Upper Mississippi River Wildlife and Fish Refuge, Macrophytes

HAZLETON ENVIRONMENTAL SCIENCES

GREEN, W. E. 1960. Ecological changes on the Upper Mississippi Wildlife and Fish Refuge since inception of the 9 foot channel. U.S.D.I. Bur. Sport Fish. and Wildl., Winona, MN. 15 p.

Abstract: Unable to locate in major midwestern libraries. Written request to Washington, D.C.; no response.

Keywords: Upper Mississippi River Wildlife and Fish Refuge, Channelization, Ecology

GREEN, W, E, 1963. Waterfowl utilization and hunting kill 1946-1960. Upper Mississippi River Wildlife & Fish Refuge. USDI Bur. Sport Fish. and Wildl. Spec. Report Wildl. No. 71.

Abstract: A 15-year study was made of hunter utilization of waterfowl on the Upper Mississippi River, and of the effects of management practices, open and closed areas, seasons, and bag limits on waterfowl harvest.

This survey covers 251,876 hunter trips, on which 283,763 ducks were taken for a daily average harvest of 1.12 ducks per day of hunting. It is estimated that in an annual average of 135,790 days of waterfowl hunting on the area, hunters bagged 165,190 ducks while losing 38,625 cripples, for an estimated average total annual kill of 203,800 ducks.

A description of hunting conditions, public hunting areas, and closed areas is given, together with hunting pressures since 1953, species composition of the bag, and comparative hunter success on hourly, daily, and annual bases.

Crippling losses have been assessed and related to other hunting factors such as ease of killing ducks, cover, and type of hunting. A table of comparative vulnerability for waterfowl harvested in the area compares other species with mallards.

Apparently, presunrise hunting is twice as effective per unit of time as is hunting at other times of the day; crippling losses are higher per unit of time, but the rate of crippling is actually less.

Distribution of kill among hunters indicates that only 10.44% of the hunters checked succeeded in taking over three ducks per day, while over 45% failed to bag game on the day they were checked. The 10.44% of the hunters

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taking over three ducks accounted for 37.20% of the total harvest, although the harvest was only 9.54% higher than had the limit never exceeded three ducks per day.

Data also show how changing opening dates will have a bearing on the harvest of certain species. Delaying the opening as little as 1 week later than October 1 will greatly reduce the harvest of such species as blue-winged teal and wood ducks.

Keywords: Hunting, Waterfowl, Survey, Upper Mississippi River Wildlife and Fish Refuge

GREEN, W. E. 1964. Siltation on the Mississippi River. Rept. to Winona Co. Comm.

Abstract: Written request sent; could not locate.

Keywords: Siltation

GREENBANK, J. 1950. The length-weight relationships of some Upper Mississippi River fishes. 12 pp. manuscript. Original not available; cited in K. D. Carlander, 1953. Handbook of Freshwater Fishery Biology, with the first supplement. Wm. C. Brown Co., Dubuque, Iowa. pp. 344-348.

Abstract: Insufficient citation; could not locate.

Keywords: Length-weight, Upper Mississippi River, Fish

GREENBANK, J. 1957. Creel census on the Upper Mississippi River, U.S. Fish Wildl. Serv., Spec. Sci. Rpt. Fish No. 202, 59 p.

Abstract: Two summer and two winter seasons of creel census on the section of the Upper Mississippi River, between Red Wing, Minnesota, and Dubuque, Iowa, in 1944-46, showed the catch to be about 0.5 fish per hour, with a wide variety of fish represented, crappies, bluegill, walleye, and sauger being predominant. The fishery is important especially to the local fishermen. The fishing success was about the same in the winter as in the summer. Wide fluctuations occurred from one locality to another, and from week to week. Fishing success varied from year to year; it was better in 1948-49 than in 1944-46. The catch per hour was influenced by several factors,

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such as bait, time of day, day of the week, sex of the fisherman, and probably water temperature (in the summer) and depth of snow cover (in the winter). For most practical purposes, and in the interests of economy of data-gathering, the sample size could be reduced; it is suggested that a census conducted on every fifth day would give results reliable enough for practical management purposes.

Keywords: Upper Mississippi River, Creel census

GREGORY, W. 1918. Improvement of the Upper Mississippi River: A Bibliography. Bull. Affil. Eng. Socs. of Minn. 3 (December 1918) pp. 218-240.

Abstract: Written request sent; could not locate.

Keywords: Bibliography

GRIMES, D. J. 1976. The microbiological water quality effects of hydraulically dredging polluted bottom sediments in the Upper Mississippi River, I. Resuspension of indicator bacteria, Salmonellae and Shigellae. GREAT. USACE.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Water quality, Dredging, Pollution, Sediment, Upper Mississippi River, Bacteria

GROSS, E. R. 1973. Buried soils of the drainageways in the driftless area of the Upper Mississippi River Valley. Ph.D. Thesis. Univ. Min. 206 p.

Abstract: Written request sent; no response.

Keywords: Upper Mississippi River, Sediment

GUDMUNDSON, B. J. R., R. J. KRIZEK, and E. F. MOSONYI. 1974. Strategies for monitoring environmental impacts on the Upper Mississippi River. Proceedings of the international seminar and exposition on water resources instrumentation. Water resources instrumentation. Vol. 2.

Abstract: Insufficient citation; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Upper Mississippi River, Ecology, Survey, Distribution, Effluent, Discharge, Habitat alteration

HALL, R. J., L. BERNER and E. F. COOK. 1975. Observations on the Biology of Tricorythodes atratus McDunnough (Ephemeroptera: Tricorythidae). Proc. Entomol. Soc. Wash. 77(1):34-49.

Abstract: As the ecology of the nymphal stages, the behavior of the adults, and the life history of the mayfly genus Tricorythodes are poorly known, an intensive study of T. atratus was undertaken in northern Minnesota during the summers of 1969 and 1971. Analyses were made of populations of nymphs by dividing them into age groups to determine where each occurs in the streams studied. Stomach contents revealed that nymphs feed primarily on plant materials. Drift-net collections for 24-hour periods were made to provide information about growth, emergence, and oviposition. Frequent observations of emergence and swarming were made. Subimagos were seen emerging from the nymphal stage underwater, swimming to some emergent object, climbing from the water, and expanding their wings. Emergence of subimagos appears to be correlated with low light intensity. Swarming of adults occurs soon after daybreak and may continue until mid-morning. Eggs begin hatching in early June, nymphs develop in about five weeks and adults emerge in mid-July. A second peak emergence occurs in late August with occasional individuals appearing as adults into November. The species probably overwinters in the egg stage as mid-winter collections from the streams studied have never produced nymphs.

Keywords: Mayflies, Minnesota, Age and growth, Life history

HALL, R. J., T. F. WATERS and E. F. COOK. (In press). The Role of Drift Dispersal in Production Ecology of a Stream Mayfly. Ecology.

Abstract: The role of drift behavior in the production ecology of the mayfly Tricorythodes atratus McDunnough was investigated in a headwater reach of the Mississippi River in northern Minnesota. Comparison of drift and bottom samples revealed that larger nymphs exhibited a greater propensity to drift; small immatures (1-2 mm) were predominant in a study riffle, whereas larger nymphs (>2 mm) were relatively more abundant in a downstream pool. Annual production was 8.56 g/m²/yr (dry weight) and the annual turnover ratio was 26; the species was bivoltine. Errors in production rate estimation resulting from sampling a single habitat were substantial when differential size dispersal of nymphs occurred.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Mayflies, Minnesota, Production, Standing crop

HANSON, G. H. 1956. Iowa fish and fishing. Ia. Cons. Comm. 377 pp.

Abstract: Written request sent; no response.

Keywords: Fish, Fishing, Iowa, Identification

HARLAN, J. R., and E. B. SPEAKER. 1969. Iowa fish and fishing. 4th Ed. Iowa. Cons. Comm., Des Moines, IA. 365 pp.

Abstract: Written request sent; no response.

Keywords: Fish, Fishing, Iowa, Identification

HART, C. W. and S. L. H. FULLER. 1974. Pollution Ecology of Freshwater Invertebrates. Academic Press. New York.

Abstract: Insufficient citation; could not locate.

Keywords: Pollution, Invertebrates, Ecology

HAVLIK, M. E. 1977a. Naiad Mollusks of the Minnesota River at Savage, MN. Contr. No. DACW-37-77-M-1127, St. Paul, Dist. U.S. Army Corps of Engr. Unpub. Rept.

Abstract: Maintenance dredging at the head of the 9 ft. navigation channel of the Minnesota River, Savage, Minnesota was temporarily halted in March 1977 until field identifications could be made of numerous naiad mollusk shells on the dredge spoils. Five methods of collection were used: hand picking, hard hat diver, crowfoot bar, and 12-in dredge pipe, and a clam shovel loader. 31 species of naiad mollusks were found on the spoils, including one right valve tentatively identified as Lampsilis higginsi (Lea, 1857), Higgins' Eye Pearly Mussel. This is on the Federal endangered species list as of 14 June 1976. The questionable shell resembled L. higginsi in the general shape, size and inflation of the umbone. The pseudocardinal and lateral teeth resembled those of the same species taken in 1976 from the Mississippi River at Prairie du Chien, Wis., but overall the shell from the Minnesota River was somewhat thinner. Extensive sampling of the 2 dredge sites at Savage by the Corps did not reveal any mussels that appeared to have been taken

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alive during the dredging. No mussel of any kind appeared to be living in the channel, so dredging resumed. A once diverse molluscan fauna appears to have been extirpated from this area of the Minnesota River.

Keywords: Minnesota, Clams, Mussels

HAVLIK, M. E. 1977b. Naiad Mollusks collected for bioassay studies from Rosebud Island, Pool 7 of the Mississippi River, above LaCrosse, WI. Contr. No. DACW37-77M-2193. St. Paul Dist. U.S. Army Corps of Engr. Unpub. Rept.

Abstract: Naiad mollusks were collected near Rosebud Island, Lake Onalaska, Mississippi River Mile 706 to 706.5, above LaCrosse, Wis, fall 1977 and used for bioassay studies done by the U. S. Army Corps of Engineers. Species sought were Lampsilis ventricosa (Barnes, 1823), L. radiata luteola (Lamarck, 1819), and Fusconaia flava (Rafinesque, 1820). Great quantities of submerged aquatic vegetation hampered collection efforts. A total of 17 live species were hand collected including a single Tritogonia verrucosa (Rafinesque, 1820). Amblema plicata plicata (Say, 1817) outnumbered the second most common species, L. ventricosa, by nearly 3:1. The diversity of naiades in this 40 year old impounded area probably resulted from the variety and abundance of fish species in Lake Onalaska.

Keywords: Wisconsin, Clams, Mussels, Mollusks

HAVLIK, M. E. 1977c. A Naiad Mollusk Survey of the Mississippi River Adjacent to Isle Le Plume at LaCrosse, WI. Contr. with City of La Crosse, Wis. Unpubl. Rept.

Abstract: A pre-dredging survey was done for the City of LaCrosse, Wisconsin to determine the presence or absence of endangered naiad mollusks from Mississippi River Mile 695.7 to 696.1, adjacent to Isle La Plume at LaCrosse, June 1977. Of the 27 species of naiades collected, only 11 were found alive. Most of the 468 live specimens ranged from 2mm to 15mm in length. Ten species were found in small numbers, but the eleventh, Truncilla donaciformis (Lea, 1827) was represented by 394 specimens at 52 of 65 sites. Live mollusks were found by crowfoot bar exclusively throughout the length and width of the area surveyed. 26 species were found on the nearly barren 47,000 cu. yd. fill site on nearby Green Island in fall 1977. Most of these specimens had been dead for some time indicating species formerly living in

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the area. 7 species were added to the 28 found in the LaCrosse area in 1930-31, for a total of 35 species. The living fauna at the Isle La Plume site appears to have declined by 59% due in part to recent extensive dredging above and below the site. No endangered species were encountered.

Keywords: Clams, Mussels, Mollusks, Wisconsin

HAVLIK, M. E. 1978a. Naiad mollusks of the Black River at the Clinton Street Bridge, LaCrosse, WI. Project I.D. 5429-1-00. Wis. Dept. of Trans. Unpub. Rept.

Abstract: A survey was done to determine the presence or absence of endangered naiad mollusks at three sites for the proposed replacement of the Clinton Street Bridge on the Black River at LaCrosse, Wisconsin, May 1978 under contract with the Wisconsin Department of Transportation.

Methods used were a crowfoot bar survey of the impacted areas followed by diver trudging of the proposed pier sites and the piers of the existing bridge. Seventeen species of naiad mollusks were found alive. Seven additional species of naiad mollusks were represented by dead specimens including one partial, subfossil valve of Lampsilis higginsii (Lea, 1857), Higgins' Eye, an endangered species.

Keywords: Endangered species, Mollusks, Wisconsin

HAVLIK, M. E. 1978b. Naiad Mollusks of the Mississippi River near LaCrosse, Wisconsin. Mississippi River Research Consortium, 11th Annual Meeting, June 8-10, 1978, LaCrosse, Wisconsin.

Abstract: Twenty-one live and 14 dead species of naiad mollusks were found in Pools 7 and 8 near LaCrosse, Wisconsin in 1977-78. Of importance was the discovery of a juvenile Lampsilis higginsii, an endangered species. Two live Anodonta suborbiculata were found during a preconstruction survey for the city of LaCrosse. This species had never been recorded in Wisconsin, nor farther north than Peoria, Illinois.

Juvenile Truncilla donaciformis were found throughout the width of the main channel at R. M. 696 during a pre-dredging survey. Distribution patterns were different from those formerly reported for naiad mollusks.

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Seventeen live species, including Tritogonia verrucosa, were taken near Rosebud Island, Lake Onalaska, above LaCrosse incidental to the collection of Lampsilis ventricosa, L. radiata luteola, and Fusconaia flava used in silt and sand bioassay studies done under a separate contract with the Corps of Engineers. This large collection was made by hand because of the great quantities of aquatic vegetation in the lake in fall.

A survey of a new bridge site on the Black River, LaCrosse, was done for the Wisconsin Department of Transportation by means of a crowfoot survey followed by diver truthing of pier sites. Quadrula quadrula was recorded as fairly common at this site. Toxolasma parvus, a species usually not considered to be a part of the main stem fauna, is being found in an increasing number of main channel and backwater sites, indicating changing substrates. Amblema p. plicata is the most abundant species.

Keywords: Mollusks, Upper Mississippi River, Pools 7 and 8, Distribution

HAVLIK, M. E. 1979a. The northern extension of the range of Anodonta suborbiculata Say, 1831, (Molluska: Bivalvia: Unionidae). In preparation.

Abstract: The naiad mollusk Anodonta suborbiculata Say, 1831, has apparently never been reported from the Mississippi River main stem north of Rock Island, Illinois. During June 1977 two live specimens of A. suborbiculata were collected in Bluff Slough, a Pool 8 side channel (Mississippi River Mile 695) at LaCrosse, Wisconsin during a pre-construction environmental assessment of the Slough for a LaCrosse city sewer project. The size and age indicated reproduction in the area, at least on a limited basis. Three other living naiad species and 4 dead naiad species were also collected from this site.

Keywords: Mollusks, Distribution

HAVLIK, M. E. 1979b. The Importance of Naiad Mollusks: Past, Present and Future. Proc. Upper Mississippi River Cons. Comm. Symp. On Upper Mississippi Bivalve Mollusks, Rock Island, Illinois, 3-4 May 1979.

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Abstract: The naiad mollusk fauna of the United States has been heavily impacted by man over the past 200 years, particularly in the last century. Survey work is needed on the Upper Mississippi River naiad mollusks to determine ranges densities, and species distributions. This need is evidenced by the discovery of Lampsilis higginsii (Lea, 1857), Higgins' Eye, populations and Anodonta suborbiculata Say, 1831, Heel Splitter, a species previously unreported in Wisconsin. Many taxonomic and ecological problems remain. There is also need to better understand life histories and further identify host fish so that impacts by pollutants, commercial harvesting and waterway alterations may be mitigated.

Keywords: Mollusks, Survey

HAVLIK, M. E. and D. H. STANSBERRY. 1977. The naiad mollusks of the Mississippi River in the vicinity of Prairie du Chien, WI, Ann. Rept. Am. Malacological Union.

Abstract: Several accounts have been written of the naiad mollusks in the vicinity of Prairie du Chien, WI. Thirty-four species were collected in 1904, 43 species in 1921, 27 species in 1920-22, 31 species in 1930-31, and 33 species in 1976-77. The 1976 collection was made from a large dredge spoils; many specimens were fresh-dead, 2 species were represented by subfossil specimens only. At least 14 specimens of Lampsilis higginsii (Lea, 1857) were found indicating the presence of what may be the largest aggregation known of this endangered species. 8 living specimens of L. higginsii were collected from the area immediately below the dredge site in 1977 indicating that this site is a prime candidate for designation as critical habitat for this species. The fauna had a loss of 27% from 1921 to 1976 making the Mississippi River naiad fauna less damaged than that of any other large river in North America today. Prairie du Chien has the greatest diversity of naiad mollusks known from any site on the Mississippi River, 44 species.

Keywords: Mollusks, Endangered species, Distribution

HEARD, W. H. 1968. Mollusca, in F. K. Parrish (Ed.) keys to water quality indicative organisms. Fed. Water Pollution Control Admin., Cincinnati, pp. G1-G26.

Abstract: Written request sent; no response.

Keywords: Mussels, Water quality, Pollution

HAZLETON ENVIRONMENTAL SCIENCES

HELD, J. W. 1975. The environmental impact of upland disposal of dredged material at Island 117, Navigation Pool No. 8, Upper Mississippi River. Report to U.S. Army Corps of Engineers, Waterway Experiment Station, Vicksburg, MS.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Dredging, Pool 8, Upper Mississippi River

HELLA, U. W. 1960. A parkway for the mighty Mississippi. Minnesota Cons. Volunteer, March-April, 1960.

Abstract: Written request sent; could not locate.

Keywords: Recreation

HEUSCHELE, A. L. S. 1968. The Phenology of macrobenthos in a Mississippi River floodplain lake. Ph.D. Thesis. Univ. of Minn. 73 pp.

Abstract: Written request sent; no response.

Keywords: River lake, Benthos, Survey

HILL, A. K. 1961. Out with the fleet on the Upper Mississippi, 1898-1917. Minn. Hist. 37:283-297.

Abstract: Written request sent; no response.

Keywords: Commercial boat traffic

HOFFNER, M. 1932. Argonauts of the Mississippi. Palimpsest, 13(1932): 473-486.

Abstract: Reference source located; article not within.

Keywords: Commercial boat traffic, Barges, Recreational boat traffic

HOFFMAN, P. L. 1971. Environmental Engineering Programs. Quarterly Technical Progress Report, January-March 1971. 48 pp.

Abstract: Written request sent; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Thermal effluent, Nuclear power

HOLZER, J. A. and S. J. IRONSIDE. 1977. Basic lake inventory of Lake Onalaska LaCrosse, Wisconsin. Wis. Dept. Nat. Res. Mgmt. Rept., Unpub. 42 pp.

Abstract: Lake Onalaska, a shallow 5,400 acre lake adjacent to the main channel of the Mississippi River, was created in 1937 by the completion of Locks and Dam No. 7. The Mississippi River supplies water to Lake Onalaska by several channels meandering through a complex of islands making up the west boundary of the lake.

Lake Onalaska is a well known fishing lake, both during the summer and through the winter. Most anglers fish for bluegills, though largemouth bass, northern pike, bullheads, and catfish are also harvested.

Keywords: Lock and Dam 7, Sport fishing, Lake Onalaska, Pool 7

HOLZINGER, J. M. 1887. Notes on the Mollusca of Winona County. Ann. Rept. Geol. and Nat. Hist. Surv. May 6:485-491.

Abstract: Written request sent; no response.

Keywords: Mollusks, Clams, Minnesota

HORA, M. 1976. Report of the ad hoc PCB committee - Upper Mississippi River Conservation Committee. In: Proc. 33rd Ann. UMRCC Mtg. 1977. pp. 117-124.

Abstract: Insufficient citation; could not locate.

Keywords: Pesticides, Pollution

HORNADAY, W. T. 1931. Thirty years war for wild life. Perm. Wild Life Prot. Fund. Stanford, Conn.

Abstract: Written request sent; could not locate.

Keywords: Wildlife

HUBLEY, R. C., JR. 1960. Incidence of lamprey scarring on fish captured during three years of exploratory fishing in the Upper Mississippi River, 1956-1958. Wisconsin Cons. Dept., Feb., 1960.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Phone request; no response.

Keywords: Parasites, Fish

HUMPHREYS, A. A., and H. L. ABBOT. 1876. Report upon the physics and hydraulics of the Mississippi River. Corps of Engr. Prof. Pap. No. 13, 1861, Reprint 1876.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Hydraulics

HAZLETON ENVIRONMENTAL SCIENCES

JERGENS, G. D. and W. CHILDERS. 1959. Ages at given lengths for game species taken in U.M.R.C.C. cooperative field survey, 1956, in the Wisconsin-Iowa-Illinois waters of the Mississippi River. (Mimeo.) F.T.S. Supplemental Rpt. U.M.R.C.C., Proceedings 13:113-121.

Abstract: Insufficient citation; could not locate.

Keywords: Age and growth, Fish, Survey, Wisconsin, Iowa, Illinois

JOHANNES, C. A. 1960. Memorandum on the Mississippi River in the Metropolitan Area from the junction with Rum River to the Minneapolis-St. Paul Sanitary District outfall, October 1960. Minn. Dept. Health., Div. Environ. Sanitation, Sect. Water Poll. Control. Mimeo.

Abstract: Written request sent; no response.

Keywords: Urbanization, Minnesota

JOHNSON, R. J. R. 1967. Udall approval seen on plan to clean up major rivers. Minn. Dept. Cons., Out-of-Doors, 12(6):18.

Abstract: Written request sent; no response.

Keywords: Water quality, Urbanization, Pollution

JORDAN, D. S. and B. W. EVERMANN. 1908. American food and game fishes. Doubleday, Page and Co. 571 pp.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Fish, Identification

JORDON, P. R. and R. F. BROWN. 1967. Preliminary survey ground-water distribution and potential in the Upper Mississippi River basin. U. S. Geol. Survey. Mimeograph report.

Abstract: Insufficient citation; could not locate.

Keywords: Survey, Upper Mississippi River, Hydrology, Distribution

HAZLETON ENVIRONMENTAL SCIENCES

KARAKI, S. and J. VAN HOFTEN. 1974. Resuspension of Bed Material and Wave Effects on the Illinois and Upper Mississippi Rivers caused by Boat Traffic. CERT4-75 SK-JV9, Colorado State Univ., Ft. Collins, Colo.

Abstract: Written request sent; report not available.

Keywords: Sediment, Illinois River, Upper Mississippi River, Recreational boat traffic, Commercial boat traffic

KEATING, B. 1971. The Mighty Mississippi. Nat. Geog. Soc., Wash.

Abstract: Insufficient citation; could not locate.

Keywords: History, Upper Mississippi River

KEENLYNE, K. D. (ed.). 1974. Upper Mississippi River Conservation Committee investigational reports. UMRCC Spec. Publ., Rock Island, Ill. 179 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Management

KENNEDY, J. F. 1976. Testimony before the Iowa Water Quality Commission in the Matter of: Operational permit renewal.

Abstract: Written request sent; no response.

Keywords: Nuclear power, Iowa, Water quality, Pollution

KENNEDY, J. F. 1977. Hydraulic and thermal performance of Diffuser-Pipe System, Quad-Cities Power Station. IIHR, Iowa Institute of Hydraulic Research. University of Iowa. (Precis presented September 6, 1977 at Commonwealth Edison Company, Chicago, Illinois).

Abstract: Written request sent; could not locate.

Keywords: Thermal effluent, Hydrology, Hydraulics

KERNAN, H. 1951. Report of set line operations carried on in the Iowa-Wisconsin and Minnesota-Wisconsin boundary waters of the Mississippi River during the period from May, 1950 through December, 1950. Mimeo, unpublished, 2 pp.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Iowa, Wisconsin, Minnesota, Fishing, Commercial fishing

KERNAN, H. 1952a. Report of commercial gear operations carried on in the Iowa-Wisconsin and Minnesota-Wisconsin boundary waters of the Mississippi River, during the year 1951. Mimeo., unpublished. 2 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Commercial fishing, Iowa, Wisconsin, Minnesota

KERNAN, H. 1952b. Report of set line operations carried on in the Wisconsin-Iowa and Wisconsin-Minnesota boundary waters of the Mississippi River during the period from May 1, 1951 through December, 1951. Mimeo., unpublished, 2 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Commercial fishing, Iowa, Wisconsin, Minnesota

KING, W., J. E. HEMPHILL., A. H. SWARTZ, and K. F. STUTZMAN. 1961. Sport fishing today and tomorrow. U. S. Dept. Int., Fish and Wildlife Service. Washington.

Abstract: Unable to locate in major midwestern libraries. Written request to Washington, D.C.; no response.

Keywords: Sport fishing

KLANT, R. F., and P. J. VIDAL. 1958. The Mississippi River Sport Fishery Survey, 1956 and 1957, Illinois Section: Vol II Final Report of the 1956-1957 Survey. Ill. Dept. Cons., Div of Fish. Mimeo, 290 pp.

Abstract: Written request sent; could not locate.

Keywords: Survey, Sport fishing, Illinois

KLINE, D. and D. B. MCDONALD. 1973. A summary of Creel Survey Studies Mississippi River - Pool 14, June 1972-Feb 73. Iowa State.

Abstract: Insufficient citation; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Creel census, Survey, Pool 14, Fish

KROSCH, H. F. 1969. Winter water temperature and ice cover on Lake St. Croix in the vicinity of the Allen S. King Power Plant. Minn. Dept. of Nat. Res. Spec. Publ. No. 77.

Abstract: A study was conducted on the effects of the heated discharge from the Allen S. King Power Plant on ice cover on Lake St. Croix. In order to determine if the discharge from the plant was producing the open water areas, ice thickness and vertical water temperatures were recorded at 13 stations.

Keywords: Temperature, Minnesota, Ice

KUDO, R. R. 1929. Histo zoic Myxosporidia found in fresh-water fishes of Illinois, U. S. A. Arch. Protistenk. 65(3): 364-378.

Abstract: Insufficient citation; could not locate.

Keywords: Parasites, Fish, Illinois

KUHL, G. M. (undated). Primary production in the Mississippi River near Becker, Minnesota. Masters thesis. St. Cloud State University.

Abstract: Written request sent; not available.

Keywords: Minnesota, Primary production, Phytoplankton

KYRE, R. E. 1966. A survey of Mississippi river duck hunter pressure. Wis. Dept. Nat. Res., LaCrosse, Wis.

Abstract: Phone request; no response.

Keywords: Survey, Ducks, Hunting

HAZLETON ENVIRONMENTAL SCIENCES

LANE, E. W. 1938. Report on investigation of sediment carried by rivers of the St. Paul District. Corps of Eng.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Sediment

LARSEN, T. R. 1977. A Winter Study of Dissolved Oxygen Levels in Lake Onalaska, the Trempealeau Lakes, and Shady Maple. Wis. Dept. Nat. Res. Unpub. Sum. Rept. 11 pp.

Abstract: Phone request; no response.

Keywords: Chemistry, Lake Onalaska

LARSEN, T. R. and J. A. HOLZER. 1978. Survey of Mussels in the Upper Mississippi River, Pools 3 through 8. Interim Prog. Rep. Wis. Dept. Nat. Res., LaCrosse, Wis. Unpubl.

Abstract: Phone request; no response.

Keywords: Survey, Mussels, Pools 3, 4, 5, 6, 7 and 8

LARSON, O. 1961. Larval trematodes of fresh-water snails of Lake Itasca, Minnesota. Minn. Acad. Sci. 29:252-254.

Abstract: Written request sent; could not locate.

Keywords: Parasites, Snails, Mollusks, Minnesota

LEWIS, W. M. 1977. Observations on the Ecological Impact of the Quad-Cities Generating Station. Southern Illinois University.

Abstract: Written request sent; could not locate.

Keywords: Ecology, Habitat alteration, Nuclear power

LIMPERT, R. and R. VOSE. 1976. Fall feeding habits of migrating whistling swans on the Upper Mississippi River. Submitted to J. Wildl. Mgt. Jan 1976.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Food habits, Waterfowl, Upper Mississippi River, Whistling swan

LITTLEJOHN, J. 1972. Mississippi River response to stabilization works. ASCE Natl. Rsrcs. Engr. Meeting, Atlanta.

Abstract: Insufficient citation; could not locate.

Keywords: Channel maintenance

LOPINOT, A. C., and P. W. SMITH. 1973. Rare and endangered fish of Illinois. Ill. Dept. Cons., Div. Fish. 53 pp.

Abstract: In Illinois 25 species of fish are threatened with expiration. Two of these species (lake sturgeon and blackfin cisco) are also listed as endangered in the United States by the U. S. Bureau of Sport Fisheries and Wildlife.

Each species considered rare or endangered is illustrated and the distinguishing characteristics marked by lines. In addition, the common name, scientific name, order and family of the species is given. The distinguishing characteristics are discussed along with the maximum size for the species. The present and former distribution is listed. Former distribution means within historic times but prior to 1905. Present distribution means since 1950. A map on the back side depicts old records with a hollow symbol, present records with a solid dot. The status of the species is listed as rare or endangered. These terms are defined as follows:

Rare: Not under immediate threat of extinction in the state, but occurring in such small numbers and/or in such a restricted habitat that it could quickly disappear.

Endangered: Actively threatened with extinction in the state. Continued survival unlikely without special protective measures.

Range status in Illinois is self-explanatory. Fecundity lists information about the number of eggs produced when this is available. Reasons for decline indicates what is making the species rare or endangered.

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Protective measures already taken or proposed gives the status as to the law which prohibit the taking or possessing of the species concerned.

Management recommendations gives general information as to what might be done to enhance the species and keep it from being extinct.

All streams and lakes where rare and endangered fish species occur should be protected from dredging, channeling, damming, pollution, and any other encroachment by man that would help destroy the few remaining species present. Illinois fishery biologists should be aware of the waters with rare and endangered fish so they can be watched carefully in our fast changing environment.

Keywords: Endangered species, Rare species, Fish, Illinois, Distribution

HAZLETON ENVIRONMENTAL SCIENCES

MACK, F. J. 1970. Sediment yields in the Upper Mississippi River basin. Proc. Sem. on sediment transport in rivers and reservoirs, Pap. No. 4, Corps of Engr. Hydrol. Engr. Cen., Davis, Calif.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Sediment

MAHER, T. F. 1965. Degradation study of the Middle Mississippi River, vicinity of St. Louis, Missouri. In: Proc. Fed. Inter-Agency Sed. Conf., Jackson, Miss. 1963. pp. 424-430.

Abstract: Insufficient citation; could not locate.

Keywords: Pollution

MALTBY, F. B. 1905. Hydraulic dredging on the Mississippi River. Trans. ASCE. Vol. LIV, Part C, pp. 391-478.

Abstract: Insufficient citation; could not locate.

Keywords: Hydraulics, Dredging

MARKING, L. L. and T. D. BILLS. 1977. Acute Effects of Silt and Sand Sedimentation of Freshwater Mussels. U.S. Fish and Wildlife Service, Fish Control Laboratory. LaCrosse, WI. Completion Report-Support Agreement No. NCS-SA-77-104-CO.

Abstract: Environmentalists are seeking means to protect aquatic species from adverse effects of the ever growing commercial and recreational interest on the Mississippi River. Dredging to maintain the navigational channel has affected freshwater mussel populations, and research is needed to demonstrate what impact the movement of dredge sediments has on these animals.

Freshwater mussels of the following species -- pig-toe (Fusconaia flava), fat mucket (Lampsilis radiata luteola), and pocketbook (Lampsilis ventricosa), were exposed to sediment overlays to determine the clams' ability to emerge from depths of 2 to 10 inches. Clams emerged within a few hours or did not emerge at all. Those that did not emerge eventually died. Four inches of silt prevented the emergence of 50% of the pig-toe,

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but 7 inches or more of sand or silt was required to prevent the emergence of fat mucket and pocketbook clams. This study demonstrates the acute effects of single dredge spoil overlays on clams, but it does not address the effects of rates of deposit, adaptation to new substrates, migration to new substrates, or long term effects on the survival of clam populations.

Keywords: Sedimentation, Mussels, Dredging, Clams

MARMER, G. J., I. P. MURARKA, and F. VASLOW. 1976. An evaluation of environmental data relating to selected nuclear power plant sites. The Quad-Cities Nuclear Power Station site. Div. of Environ. Impact Studies, Argonne Nat. Lab., Argonne, Ill. 54 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Nuclear power, Limnology

MATHIAK, H. A. 1978. I collect clams. Wisconsin Natural Resources. 2 (4):9-10.

Abstract: An article describing the author's experiences with clamming. Reproduction, life history, morphology, and collection of clams are discussed. An illustration is given of the general structure of a fresh-water mussel.

Keywords: Clams, Life history

MATTEI, P. F. 1970. Mississippi River Pollution Abatement. Metropolitan St. Louis Sewer District, MO. 11 pp.

Abstract: Written request sent; could not locate.

Keywords: Pollution, Missouri

MCCONVILLE, D. R. 1972. Population Dynamics of the Macroinvertebrates in the Mississippi River near Monticello, Minnesota. Ph.D. Thesis. University of Minnesota. 197 p.

Abstract: The natural river benthic fauna components from the Mississippi River near Monticello, Minnesota were affected by temperature and current and by river bottom to a lesser extent. Temperature caused benthic pop-

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ulations components to exhibit definite seasonal trends. Current velocity was the most important factor in determining the bottom substrate composition.

Keywords: Minnesota, Invertebrates, Benthos, Population

MCDONALD, D. B. 1977a. Literature review of the spawning patterns of several species of fish occurring in the Mississippi River. Response to Reg. V, USEPA. Pub. Notice No. 71I-0350, NPDES No. 1L000 5037, Att. H.

Abstract: Written request sent; no response.

Keywords: Bibliography, Fish

MCDONALD D. B. 1977b. A "worst case" analysis of the effects of operation of the Quad-Cities station on the thermal regime and fishery of the Mississippi River in Pool 14. Rept. to Comm. Ed. Co., Chicago. 25 pp.

Abstract: Written request sent; no response.

Keywords: Thermal effluent, Fish, Pool 14, Nuclear power

MCDONALD, D. B., H. F. BERNHARD, V. KOWALSKI and H. O. EILER. 1972. Biological effects of open and closed cycle cooling on Pool 14. Mississippi River Thermal Effects Symposium, Oak Brook, Illinois.

Abstract: Phone request; no response.

Keywords: Thermal effluent, Nuclear power, Pool 14

MCHENRY, J. R., J. C. RITCHIE and C. M. COOPER. 1977. Recent sedimentation rates in Lake Pepin. Pap. Pres. at Miss. Riv. Res. Consortium Ann. Mtg. Winona, Minn.

Abstract: Sedimentation rates since 1954 in Lake Pepin, as determined from the content of fallout cesium-137 in the sediment profile, have exceeded 2.5 cm/yr in the upper lake. The rates decreased downstream in Lake Pepin to less than 0.5 cm/yr. These rates, although somewhat less than those of the previous half century (1895-1954), are sufficiently large that the uppermost portion of Lake Pepin is threatened with conversion to a marsh in a century. The density of the sediments measured increased with depth in the sampled profile

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from 1.1-1.2 g/ml in the surface to 1.4-1.5 g/ml at 2 or 3 m. There was little or no change in the patterns of textural composition or density of the sediment profile with depth and age over the past 80 to 150 years.

Keywords: Lake Pepin, Sedimentation

MEHTA, S. C. 1969. The limnological factors affecting pesticide residues in the Iowa River and Coralville Reservoir. Unpublished Master's Thesis, Univ. of Iowa.

Abstract: Written request sent; long term loan.

Keywords: Limnology, Pesticides, Iowa River, Iowa, Water quality

MEYER, M. P. 1975. Remote sensing applications in agriculture and forestry: Upper Mississippi River Habitat Inventory Quarterly Progress Report. Remote sensing laboratory. Univ. Minn., St. Paul. 5 p.

Abstract: Written request sent; no response.

Keywords: Upper Mississippi River, Habitat, Vegetation, Remote sensing

MEYER, M. P., J. MINOR and R. HAGEN. 1977. Upper Mississippi River habitat inventory. Quart. Prog. Rept. Remote Sensing Lab., USDI Contr. No. 14-16-0003-686.

Abstract: Written request sent; no response.

Keywords: Habitat

MILLER, E. F., K. KRUM, W. L. K. SCHWARZ and W. RUDELIUS. 1973. Environmental impact assessment study. Pool 3. St. Mary's College. Winona, Mn. 192 p.

Abstract: Written request sent; could not locate.

Keywords: Pool 3, Ecology

MOLAMPHY, T. J. 1960. Winter fishing on the Mississippi River in Iowa, 1956 through 1960. Iowa. Cons. Comm., Admin. Summary. Mimeo., Unpublished. 2 pp.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Iowa, Fishing, Ice

MOLAMPHY, T. J. and R. E. CLEARY 1959. Miscellaneous angling information - Mississippi River. Iowa Cons. Comm., Admin. Summary. Mimeo., Unpublished. 5 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Fishing, Sport fishing

MOORE, J. P. 1912. Classification of the leeches of Minnesota. In: The leeches of Minnesota. Geol. and Nat. Hist. Survey Minnesota. Zool. Ser. No. 5.

Abstract: Written request sent; no response.

Keywords: Minnesota, Taxonomy, Invertebrates

MOYLE, J. B. 1940. A biological survey of the Upper Mississippi River system. Minn. Dept. Cons., Fish. Res. Unit, Invest. Rept. No. 10

Abstract: At the suggestion of Dr. Samuel Eddy of the Department of Zoology, University of Minnesota, biological surveys of the river systems of Minnesota were begun in the summer of 1939, by the Minnesota Department of Conservation. During the months of July, August and September, 1939, work was completed on most of that portion of the Upper Mississippi River system between Minneapolis, Hennepin County, and Crosby, Crow Wing County. A map of this drainage area showing the location of the major field stations is included. Biological, chemical and physical data were taken twice at most of these stations; about a month elapsing between the first and second series of collections. Many of the smaller streams were investigated less completely at stations not indicated on the map. In the two and one-half months in the field it was impossible to survey all of the smaller streams and headwaters. Emphasis was placed on those streams that showed greatest possibilities for angling.

Keywords: Survey, Upper Mississippi River, Fish, Vegetation, Birds, Plankton

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MOYLE, J. B. 1961. Aquatic invertebrates as related to larger water plants and waterfowl. Investigative Report 233. Minn. Dept. Cons. 24 p.

Abstract: Relationships between production of waterfowl, bottom fauna, and aquatic plants are considered in the light of data in the literature and Minnesota data. In general, waterfowl production and bottom fauna production show similar geographic patterns, and considering the high protein requirements of wild birds, this relationship may well be one of cause and effect. It appears that production of benthic animals is related both to the quantity of aquatic plant material produced and the kinds of plants--those with finely divided

leaves or much branched stems usually being the best benthic producers. Aquatic plant materials themselves are low in protein and it appears that at least for young ducks and laying hens the green parts of plants cannot provide an adequate diet. It is concluded that waterfowl workers could advantageously use the methods for studying of benthos production developed by fisheries workers. There is a scarcity of detailed information on the feeding habits and nutrition of waterfowl and very little work has been done on the relationships between aquatic plants and production of animal foods of value in raising waterfowl. It seems likely that in management of waterfowl production areas more attention should be given to the production of high protein animal foods and to the plants that promote the production of such invertebrate animals.

Keywords: Invertebrates, Aquatic plants, Waterfowl,

MOYLE, J. B. and J. L. SKRYPEK. 1969. Levels of DDT, DDE and Aldrin in muscle and brain tissue of some Minnesota fishes, 1962-1967. Minn. Dept. Nat. Res. Spec. Publ. No. 59

Abstract: In 1962 a program for determining concentration levels of DDT and DDE in Minnesota fishes was set up jointly by the Minnesota Department of Conservation and Minnesota Department of Health. Since then, fish of game and non-game (rough) species have been collected each year at locations representative of forested and agricultural areas of the State. This report summarizes analyses of fish collected during the 6 year period 1962-1967. The fish were collected by Division of Game and Fish field personnel, often from the fish at the Biology Laboratory of the Division of Game and

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Fish and then submitted to the Department of Health for analysis.

Keywords: Pesticides, Fish, Toxicant, Minnesota

MOYLE, J. B. and J. L. SKRYPEK. 1972. Concentrations of some organochlorine insecticides and the PCB, Arochlor 1254 in flesh and brain tissue of Minnesota fish collected in 1969. Minn. Dept. Nat. Res. Spec. Publ. No. 95. 24 pp.

Abstract: In general the concentrations of chlorinated hydrocarbon insecticides and the PCB, Arochlor 1254, found in flesh of Minnesota fish in 1969 were low and at levels regarded as acceptable in human food. Concentrations of DDT and DDE found in 1969 samples tended to be lower than those found in 1962-67 samples. However, some DDT was detected in more than 90 percent of the fish tested--although usually at quite low levels--indicating persistence of this insecticide in the environment, despite decline in use. Dieldrin was detected in 44 percent of the samples. Occasional samples were found to contain endrin, heptachlor, heptachlor epoxide, methoxychlor and the polychlorinated biphenyl, Arochlor 1254.

Keywords: Chlorinated hydrocarbons, Fish, Minnesota, Toxicant

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NICKLAUS, R. A. and E. M. MERZ. 1976. An assessment of Diving Duck Food Resources in the Mississippi River Navigation Pool 7 and Selected Areas in Pools 8 and 9. (Mississippi River Work Unit). Wis. Dept. Nat. Res. LaCrosse.

Abstract: Phone request; no response.

Keywords: Diving ducks, Pools 7, 8 and 9

NICOLLET, J. N. 1965. Hydrographical Basin of the Upper Mississippi River from astronomical and barometrical observations survey and information. Minn. Historical Society.

Abstract: A reprint of the "mother map" of Minnesota cartography, originally published in 1843, on which all subsequent maps of the state were based until the era of modern surveys. An accompanying text sketches Nicollet's career.

Keywords: Hydrology, History, Climatology

NIEMUTH, W., W. CHURCHILL and T. WIRTH. 1962. The walleye: life history, ecology and management. Wis. Cons. Dept. Publication No. 227.

Abstract: Written request sent; could not locate.

Keywords: Fish, Management, Life history, Walleye, Ecology

NORD, R. C. 1958. Fishery investigation on the Upper Mississippi River. Minutes Reg. Conf., Bur. Sport Fish. and Wildl., Minneapolis, Minn.

Abstract: Written request sent; no response.

Keywords: Fish, Survey

NORWITCH, R. F., T. G. ROSS and A. BRIETKRIETZ. 1973. Water resources outlook for the Minneapolis-St. Paul metropolitan area. Metropol. Council. 219 pp.

Abstract: Written request sent; could not locate.

Keywords: Water diversion, Impoundment

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OAKES, E. L. (undated). Water resources of the Mississippi headwaters watershed, Minnesota (in review). U. S. Geol. Survey in cooperation with the Minn. Dept. Cons., Div. of Waters.

Abstract: Written request sent; no response.

Keywords: Hydrology, Minnesota

OCKERSON, J. A. 1898. Dredges and dredging on the Mississippi River. Trans. ASCE. Vol. XL:215-310.

Abstract: Insufficient citation; could not locate.

Keywords: Dredging

OLSON, K. N. and M. P. MEYER. 1976a. Vegetation, land and water surface changes in the upper navigable portion of the Mississippi River basin over the period 1929-1973. U.S. Army, Corps of Eng. Phase IV, Contr. No. DACW-37-74-C-0043. 19 pp. + App. A-G.

Abstract: This study is in response to an expressed need of the U.S. Army Corps of Engineers, St. Paul District, to identify the impact of its operation and maintenance activities on the navigable portion of the Upper Mississippi, lower Minnesota and St. Croix River to Guttenberg, Iowa. This study assignment consists of four phases:

Phase One: Preparation of a 1973 base line vegetation, land and water surface map from the heads of navigation of the Minnesota, Mississippi, and St. Croix Rivers to Guttenberg, Iowa. Special emphasis was placed on:

- (1) Location and area determination of dredge spoil banks at high and low pool stage.
- (2) Location and area determination of emergent vegetation at low pool stage.
- (3) Location and area determination of open water at low pool stage.
- (4) Location, classification, and area determination of flood plain vegetation cover types.

Phase Two: Chart the post-1939 vegetation land and water surface changes in the floodplain of pools 5, 5A, 6, 7, 8, 9, 10 and the Minnesota River from the head of navigation downstream and assess their relationship to man-caused changes in the drainage basin during the period 1939-1973.

Phase Three: Assessment of the pre-1941 to 1973

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vegetation, land and water surface changes in Pools 5, 5A, 6, 7, 8, 9, 10 and the Minnesota River. By utilizing data collected and developed in Phase I and II, the post-1941 changes in vegetation, land and water surfaces in the above pools and river were charted. The relationships of these changes to the influence of man in this area during the study period were assessed. Also the application of aerial photography in monitoring river basin features was analyzed.

Phase Four: Delineation of water and land use types as conditions existed prior to the construction of the 9-foot channel project on the Mississippi, Minnesota and St. Croix Rivers from their respective heads of navigation downstream to Guttenberg, Iowa. These data will be compared to the information generated during phase 1 to determine the changes which have taken place in these land use types through 1973.

Keywords: Dredging, Vegetation, Pools 5, 5A, 6, 7, 8, 9 and 10

OLSON, K. N., and M. P. MEYER. 1976b. Vegetation, land and water surface changes in the upper navigable portion of the Mississippi River basin over the period 1939-1973. U.S. Army, Corps of Eng. Phase III, Contr. No. DACW-37-74-C-0043. 150 pp. + App. A-M.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Vegetation, Hydrology

OWEN, R. 1952. Memorandum on a survey of the Mississippi River from above Minneapolis at the Minneapolis water works intake to below Minneapolis at the Ford Dam, Dec 17, 1951 to Jan 17, 1952. Minn. Dept. Health., Div. Water Poll. Control. Mimeo.

Abstract: Written request sent; no response.

Keywords: Fish, Survey, Minnesota

HAZLETON ENVIRONMENTAL SCIENCES

PAHL, G. 1969. Radioactive and stable strontium analysis of Upper Mississippi River clam shells. Contr. Rept. No. AT(11-1)-1178 for U.S. Atomic Energy Comm. Pres. at Symp. on Radioecology. March, 1969. 5 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Clams, Shells

PEARSE, A. S. 1922. Fishing in the Mississippi. Scientific Monthly Vol. XIV, pp. 185-199.

Abstract: Insufficient citation; could not locate.

Keywords: Fishing

PETERSEN, W. J. 1968a. The northwest passage to Iowa. Palimpsest. 49(1968):401-405.

Abstract: Reference source located; article not within.

Keywords: History, Iowa

PETERSEN, W. J. 1968b. Pikes Mississippi expedition. Palimpsest. 49(1968):47-80.

Abstract: Reference source located; article not within.

Keywords: History

PETERSEN, W. J. 1968c. The Joliet-Marquette expedition. Palimpsest. 49(1968):416-446.

Abstract: Reference source located; article not within.

Keywords: History

POTTER, C. L. 1925. How the Mississippi River is regulated. Eng. News 94 (26 March 1925): pp. 503-514.

Abstract: Insufficient citation; could not locate.

Keywords: Regulations

HAZLETON ENVIRONMENTAL SCIENCES

POTTER, G. E. and D. T. JONES. 1928. Compilation and revision of the fish records published for Iowa. Proc. Iowa Acad. Sci., 34(1927):339-366.

Abstract: Written request sent; journal in use.

Keywords: Iowa, Fish

REIS, L. and C. WHEATLEY. 1978. Predicting benthic macroinvertebrate production in backwaters of Pool 9, Mississippi River. B. A. Thesis, Luther College, Decorah, Iowa. 32 p.

Abstract: The flora and fauna of backwater lakes in Pool 9, Mississippi River, are dependent on the interactions of environmental factors. Macroinvertebrates, with an emphasis on Hexagenia numbers, were studied in selected backwater lakes during 1976 and 1977. A step-wise multiple regression analysis model was used to analyze the data and obtain a regression equation, which was used to account for changes in Hexagenia populations with the aid of a simulation model. Predicted increased water conductivity, secchi depth, and silt percentage of the substrate resulted in increased Hexagenia populations. Hexagenia populations decreased throughout the summer months as naiads matured and emerged as adults. Changes in the aquatic environment due to increased silt leads and dredging operations affect Hexagenia populations and productivity in backwater lakes.

Keywords: Benthos, Production, Backwater, Pool 9

REPLINGER, J. S. 1974. Minnesotians and Their Mississippi River: A Citizen's Review of Minnesota's Mississippi River Environments. St. of Minnesota Esthetic Environ. Task Force, Minneapolis.

Abstract: Written request sent; no response.

Keywords: Minnesota, Recreation, Fishing

RICHMAN, I. B. 1911. History of Muscatine County. S. J. Clarke Publ. Co., Chicago.

Abstract: Insufficient citation; could not locate.

Keywords: History, Iowa

RITCHIE, J. C., and J. R. MCHENRY. 1977. Recent sedimentation rates in Pool 9 of the Upper Mississippi River. Pap. pres. at Upper Mississippi Riv. Res. Consortium Ann. Mtg., June 8-10.

Abstract: In June 1976 a survey was made of sediment accumulation on 11 cross sections in Pool 9 from the Lock and Dam

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to Lansing, Iowa. Two types of surveys were made. One was a fathometer measurement of the bottom contours of the 11 cross sections. These were compared with topographic surveys made in 1937 before the closure of the Lock and Dam. Also on each cross section samples from profiles were collected for analysis for Cesium-137 concentrations. The ^{137}Cs measurements were used to determine the rate of sediment accumulation since the beginning of major nuclear testing in 1954, the maximum nuclear testing in 1964, and the sampling data (1976). These surveys showed areas of both accumulation and degradation in Pool 9 with more areas of accumulation than degradation. Also there appeared to be a greater accumulation of sediment in the area of the Pool 9 near the Lock and Dam than in the pool area just south of Lansing. On many ranges over 60 cm of sediment accumulation since 1937 was measured. Data from the fathometer and the ^{137}Cs survey were similar.

Keywords: Sedimentation, Pool 9

ROBINSON, J. W. 1972. Some results of channelization and their implications to the Mississippi River. In: U.S. Army, Corps of Engr. Miss. River - Ill. Waterway 12-foot channel Phase I report. Sept. 1972, pp. 4-1 to 4-8.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Channelization

ROGERS, H. G., J. DRAKE, L. L. KEMPE, T. A. OLSON and J. N. WILSON. 1940. Pollution of the Mississippi River, from Minneapolis to Brainerd including the Rum River and portions of the Crow River, 1937-40. Minn. State Bd. Health, Div. Sanitation.

Abstract: Written request sent; no response.

Keywords: Pollution

RUSSELL, C. E. 1928. A-Rafting on the Mississippi. Century Co., New York.

Abstract: Insufficient citation; could not locate.

Keywords: Recreation, History

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SAYRE, W.W. and PARR, A. D. 1972. Water temperatures in the Mississippi River Downstream from Quad-Cities Nuclear Power Station During Operation of Side Jet Condenser Cooling Water Discharge System, June-July 1972. IIHR Limited Distribution Report No. 13, Iowa Institute of Hydraulic Research, the University of Iowa.

Abstract: Written request sent; report unavailable.

Keywords: Hydrology, Temperature, Thermal effluent

SHATFORD, J. III. 1978. Annual Narrative Report. Upper Mississippi Wildlife Management Area. January 1, 1977 to December 31, 1977. Missouri Dept. Cons. 15 p.

Abstract: A report on the Upper Mississippi River Wildlife Management Area located north of St. Louis. It includes 12,500 acres lying between Alton Lock and Dam and La Grange, Missouri. Tables and charts are given on waterfowl migration, populations, food conditions and behavior. Fisheries, big game species, and furbearing animal statistics are also provided.

Keywords: Habitat, Habitat management, Waterfowl, Wildlife, Fish, Migration

SHODEEN, D. 1965. A special fisheries survey of a portion of the Mississippi River below Coon Rapids Dam. Minn. Dept. Cons., Div. Game Fish, Sect. Research and Planning. St. Paul, MN.

Abstract: A survey of a portion of the Mississippi River was conducted during the period of July 26 through July 1965. The portion of the river investigated is located in the northwestern metropolitan area.

The purpose of the survey was to determine the status of the present fish population and fish habitat. This information was used in part to evaluate the proposed removal of river bed gravel deposits from a portion of the surveyed area.

The river area surveyed is 7 1/2 miles in length and is that portion of the river which flows from the Coon Rapids Dam to the Minneapolis waterworks. The Minneapolis waterworks is located approximately 1 1/2 mile south of the Highway 100 bridge. The 7 1/2 miles of river surveyed was divided into 4 stations which

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varied from 1 1/2 miles to 2 miles in length.

Keywords: Survey, Fish, Habitat, Dredging

SIMONS, D. B. 1973. Possible effects of dredging gravel from the Mississippi River. Communication dated 19 Feb. 1973. App. A to Winkley and Harris, 1973.

Abstract: Insufficient citation; could not locate.

Keywords: Dredging

SIMONS, D. B., S. A. SCHUMM, Y. H. CHEN, and R. M. BEATHARD. 1976. A geomorphic study of Pool 4 and tributaries of the Upper Mississippi River. CER76-77DBS-SAS-YHC-RMB11. Colo. St. Univ., Ft. Collins.

Abstract: This report is a geomorphic study of both Pool 4 in the Upper Mississippi River and the Upper Mississippi tributaries. The Pool 4 analysis documents change in the Upper Mississippi River through historic time. Change is noted in river position, river surface area, island surface area, number of islands, riverbed surface area, riverbed elevation, river width, side channels, discharge, and stage. Prior to the construction of Lock and Dam 4, the surface area and width of the river decreased, as did the riverbed elevation and surface area. The surface area and number of islands increased. No change is noted in the stages and slight decreases are noted in the discharges.

After the construction of the lock and dam, the surface areas of the river, islands, and riverbed increased. The number of islands, the width, and the riverbed elevation also increased. The discharges and the minimum stage increased. The river position has not changed through historic time.

The tributary study is centered around two representative rivers, the Chippewa River in Wisconsin and the Wapsipinicon River in Iowa. The Chippewa River is unstable and its sediment influx necessitates considerable dredging in the Mississippi. It is concluded, however, that the Chippewa can be controlled. Evidence indicates that until recently a meandering pattern existed on the lower Chippewa. The sediment output of the Chippewa can possibly be controlled by reestablishing a meandering pattern in the lower river. The Wapsipinicon is a stable river which carries a

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high suspended sediment load. This river has little influence on the Mississippi.

Keywords: Pool 4, Geology

SIMPSON, C. T. 1914. A descriptive catalogue of the naiades, or pearly fresh water mussels. pp. 1-1540, Bryant Walker, Detroit, Mich.

Abstract: Insufficient citation; could not locate.

Keywords: Benthos, Invertebrates, Mussels

SKRYPEK, J. 1966. Analysis of physical and biological changes at selected sampling stations in the Mississippi River. Minn. Dept. Cons., Div. of Game and Fish. St. Paul.

Abstracts: Environmental changes in rivers usually occur at a much faster rate than in lakes. During the period prior to the installation of navigational dams on the Mississippi River, physical changes occurred quite rapidly. The dams have had a stabilizing affect on river habitats but physical changes still occur. In order to determine the effect and rate of environmental change, ten locations in Pools 4, 5 and 5A were set up as study areas and certain biological characteristics were studied over a period of seven years.

Keywords: Survey, Pools 4, 5 and 5A, Dam

SKRYPEK, J. and R. STERNBERG. 1978. Evaluation of proposed striped bass introduction in Lake Pepin. Minn. Dept. Nat. Res. Staff Rept. 8 p.

Abstract: Introduction of any exotic fish is a drastic step that must be seriously considered before action is taken. The planting of striped bass in waters of the Upper Mississippi River raises a number of relevant questions.

These include: (1) Is Lake Pepin and the Upper Mississippi River suitable for survival and growth of striped bass? (2) Will the striped bass reproduce naturally and spread to other waters? (3) What effects will the striped bass have on other species of fish? (4) What type of fishery will result from successful plants? (5) If the planting program is successful and

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so natural reproduction results, how will the program be maintained? (6) Do environmental contaminants in the Upper Mississippi River pose a threat to the development of a striped bass fishery? (7) Will anglers accept the striped bass?

Keywords: Striped bass, Lake Pepin

SMITH, A. B. 1963. Channel sedimentation and dredging problems, Mississippi River and Louisiana Gulf Coast access channels. Proc. Fed. Inter-Agency Sed. Conf., Jackson, Miss. pp. 618-625.

Abstract: Insufficient citation; could not locate.

Keywords: Sedimentation, Dredging

SMITH, P. W. 1973. A classification of the aquatic environments of Illinois and a list of potential international aquatic scientific areas. Submitted for inclusion in the over-all report of the U.S. Internat. Biol. Prog. Cons. of Aquatic Ecosystems, FW Task Force (Jan. 17, 1973).

Abstract: Insufficient citation; could not locate.

Keywords: Limnology, Illinois

SMITH, S. G. 1969. Natural Hybridization in the Scirpus lacustris complex in N. Central U.S. Current topics in Plant Science, pp. 175-200. Academic Press, New York.

Abstract: Insufficient citation; could not locate.

Keywords: Vegetation

SMYSER, R. E., JR. 1947. The Mississippi River - Chain of Rocks project. U.S. Army, Corps of Engr., St. Louis Dist. 12 pp.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate. Written request sent; no response.

Keywords: Hydrology

HAZLETON ENVIRONMENTAL SCIENCES

SPARKS, R. E. 1977. Evaluation of environmental data pertaining to the Green Bay levee. Ill. Nat. Hist. Surv. Rept. to Rock Island Dist. U.S. Army, Corps of Eng. 59 pp.

Abstract: Corps offices in St. Paul, St. Louis, and Rock Island visited; could not locate. Written response sent; no response.

Keywords: Limnology, Levees

STERNBERG, R. B., ed., 1967. "Upper Mississippi River Habitat Classification Survey." Upper Mississippi River Conservation Committee, Fish Technical Section.

Abstract: This report is to be used to define river habitat areas such as sloughs, side channels, river lakes or backwaters. It is hoped that this report will provide a standard for fisheries workers in preparing river literature. In addition, the habitat maps should prove useful to persons desiring knowledge of a certain section of the river for scientific or recreational purposes.

Keywords: Upper Mississippi River, Habitat, Survey, Slough, Side channel, Backwater

STERNBERG, R. B. 1970. Investigations on the suitability of striped bass (Morone saxatilis) for introduction in Lake Pepin. Unpublished typewritten report to Fish Tech. Section of the U.M.R.C.C. 2 pp.

Abstract: The concern of primary importance is the effect a successful introduction of striped bass will have on native high value fish species. It cannot be stated with complete certainty what the impact will be but the history of successful introductions in other states indicates that native high value predator species have not been noticeably affected. It is expected that the abundance of individual species and composition of the fish population would not be excessively altered because of the high productivity of the water in question and the high abundance of a large number of species. If the introduction is successful, it should convert large amounts of abundant forage into a high value sport fish without excessive competition or suppression of other high value predator species.

Keywords: Fish, Lake Pepin, Striped bass

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STERNBERG, R. 1974. Angler Creel census of Pools 4 and 5 of the Mississippi River, 1972-1973. Minn. Dept. Nat. Res, Div. Fish Wildl. Sect. Fish, Invest. Rpt. No. 331. Unpubl.

Abstract: A quantitative creel census conducted in Pool 4 (38,820 acres) and Pool 5 (12,580 acres) of the Mississippi River from April 1, 1972 to March 31, 1973 showed that 39 percent of the anglers resided in Minnesota or Wisconsin counties bordering these pools.

Annual fishing pressure was estimated at 477,694 man hours (12.3 m.h./acre) in Pool 4 and 249,324 man hours (19.8 m.h./acre) in Pool 5.

In both pools, most of the fishing was done from boats (66.1 percent in Pool 4 and 35.7 percent in Pool 5). In Pool 5 much fishing was also done from a privately owned fishing barge (32.5 percent).

Still fishing with natural bait was the most popular method in both pools. The average catch rate for all seasons was .65 fish per man hour in Pool 4 and .68 fish per man hour in Pool 5.

Sauger, walleye, bluegill, crappie and white bass were the predominant species in both pools.

The estimated total harvest was 312,072 fish weighing 301,730 pounds in Pool 4 (7.8 pounds per acre) and 168,937 fish weighing 171,195 pounds (13.6 pounds per acre) in Pool 5.

Direct expenditures by fishermen were estimated at \$861,972 in Pool 4 and \$393,120 in Pool 5.

Keywords: Creel census, Pools 4 and 5, Sport fishing

STRENSKI, M. Phytoplankton of the Upper Mississippi River drainage. M.S. Thesis. Univ. Wis., LaCrosse.

Abstract: Written request sent; unable to locate.

Keywords: Phytoplankton

SURBER, T. 1913. Manuscript report of the Director of the Biological Station at Fairport, Iowa, dated July 17, 1913, and describing observations at Keokuk, Iowa.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Iowa, Survey, Fishing

SWANSON, S. D., and S. H. SOHMER. 1977. The vascular flora of a typical portion of the present Upper Mississippi River. Pap. pres. at Upper Mississippi River. Res. Consortium., June 8-10, Winona, MN.

Abstract: Written request sent; abstract unavailable.

Keywords: Vegetation, Aquatic plants, Macrophytes

HAZLETON ENVIRONMENTAL SCIENCES

TADEMA, J. 1971. The Shell Oil-Sinker Method. Symp. on Ocean Exploitation Bordeaux France, March 1971.

Abstract: Insufficient citation; could not locate.

Keywords: Pollution, Petroleum

TATINCLAUX, J. C. 1974. Bathymetric survey of the Mississippi River in the vicinity of the proposed location of the blow-down discharge structure of the Carroll County Power Station. Iowa Inst. of Hydraulic Research. Iowa City, 30 p. Prepared for Commonwealth Ed. Co., Chicago, Ill.

Abstract: IIHR visited; report unavailable.

Keywords: Discharge, Thermal effluent, Iowa, Survey, Hydrology

THIEL, P. 1977. Age, growth and food habits of 4 selected minnows from navigation Pool 8 of the Upper Mississippi River. M.S. Thesis, Univ. Wis., LaCrosse, WI.

Abstract: Written request sent; could not locate.

Keywords: Age and growth, Food habits, Minnows, Pool 8

THIMSEN, D. J. and C. F. SAMUELSON. 1949. Report on the follow-up investigation of the Upper Mississippi River, Jan 1-18, 1949. Minn. Dept. Health., Div. Water Poll. Control. Mimeo.

Abstract: Written request sent; no response.

Keywords: Research, Upper Mississippi River

THOMPSON, D. H. and J. JEDLICKA. 1948. A method for correcting kill estimates from waterfowl banded during the season. Ill. Dept. Cons. W-26-R. 12(4) 433-436.

Abstract: Written request sent; could not locate.

Keywords: Waterfowl, Hunting, Ducks, Geese

THOMPSON, J. D. and W. F. GALE (undated). Feeding ecology of diving ducks on Keokuk Pool, Mississippi River. (Manuscript for J. Wildl. Mgmt.).

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Food habits, Ducks, Waterfowl, Diving ducks

TIFFANY, L. H. 1921. The gizzard shad in relation to plants and game fishes. Trans. Amer. Fish. Soc. 50, pp. 381-386.

Abstract: Written request sent; could not locate.

Keywords: Fish, Vegetation, Aquatic plants, Gizzard shad

TOFFALETI, F. B. 1970. Mississippi River Dam No. 26 sedimentation study. Proc. Sem. on Sed. Transp. in Rivers and Reservoirs. Pap. No. 6, Corps of Eng. Hydrol. Eng. Cen., Davis, Calif.

Abstract: Corps offices visited in St. Paul, St. Louis and Rock Island; could not locate.

Keywords: Lock and Dam 26, Sedimentation

TURNER, D. 1969. The history and construction of wing dams, closing dams, and shore protection on the Upper Mississippi River. Pap. pres. at Miss. Riv. Res. Consortium Ann. Mtg. July 6, 1969. LaCrosse, Wis.

Abstract: Written request sent; no response.

Keywords: History, Dam, Closing structure

TUTTLE, J. R. 1970. Sediment problems in St. Louis Harbor. Proc. Sem. on Sed. Transp. in Rivers and Reservoirs, Pap. No. 7, Corps of Eng. Hydrol. Eng. Cen., Davis, Calif.

Abstract: Corps offices in St. Paul, St. Louis and Rock Island visited; could not locate.

Keywords: Sediment

HAZLETON ENVIRONMENTAL SCIENCES

UHLER, F. M. (Circa 1929). General report on biological features of the Upper Mississippi River Wildlife and Fish Refuge (with special reference to waterfowl foods.) Typewritten manuscript at Fishery Mgt. Service Office (1965), Box 862, LaCrosse, Wis. 122 pp.

Abstract: Written request sent; no response.

Keywords: Waterfowl, Food habits, Upper Mississippi River Wildlife and Fish Refuge

HAZLETON ENVIRONMENTAL SCIENCES

VERDON, H. J. 1974. An analysis of the commercial fishing harvests in Pool 9, Mississippi River for the years 1933-1943 and 1964-1973, for the months of June, July and August. Grad. Res. 82:299. Univ. State Ia. 44 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Commercial fishing, Pool 9, Fish

VON SCHRILTZ, G. W. 1950. Fishing the father of waters. Midwest Sportsman, II:5-9, 19.

Abstract: Written request sent; could not locate.

Keywords: Sport fishing

HAZLETON ENVIRONMENTAL SCIENCES

WALTON, W. C. 1968. References on water and related land resources in Minnesota. (First draft - May 1968). State Planning Agency, St. Paul, Minnesota.

Abstract: Written request sent; no response.

Keywords: Hydrology, Minnesota

WILSON, C. S. 1950. Water use problems and wildlife values. Minn. Dept. Cons., Div. of Waters, Bull. 3.

Abstract: Written request sent; no response.

Keywords: Wildlife

WINTER, T. C. and R. F. NORWITCH. 1972. Field trip guidebook for the hydrology of the Twin Cities artesian basin. Guidebook series No. 8. Mn. Geol. Surv. 35 pp.

Abstract: This field trip focuses on several of the more significant aspects of the hydrogeology of the Minneapolis-St. Paul (Twin Cities) area. Emphasis is placed on the principal bedrock aquifer and the role of glacial drift in the hydrology. Stops include field examination of the Jordan-Prairie du Chien aquifer, a well-screen manufacturing plant and its research well field, views of surface expression of partly buried bedrock valleys, an artificial-recharge site where experiments were run on deep-well water injection into the Prairie du Chien Group (Carbonate Rock), and a site where ground water discharges as a large spring from the Prairie du Chien Group. Although much glacial geology is seen along the trip route, emphasis is placed on the drift-filled bedrock valleys.

Keywords: Hydrology, Minnesota, Geology

WOODS, W. H. 1951. Report of slat net operations carried on in the Iowa-Wisconsin boundary waters of the Mississippi River, during the calendar year 1950. Mimeo., unpublished. 2 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Iowa, Wisconsin, Fishing

HAZLETON ENVIRONMENTAL SCIENCES

WOODWARD, F. L. 1930. Pollution studies of the Upper Mississippi River. Industrial and Eng. Chem., 22, pp. 189-192.

Abstract: Insufficient citation; could not locate.

Keywords: Pollution

WU, C. K. 1968. An Economic Investigation of the Problem of Water Quality Management in the Twin Cities - Upper Mississippi River Area. Ph.D. Thesis, Univ. Minn. 241 pp.

Abstract: Written request sent; no response.

Keywords: Upper Mississippi River, Water quality, Minnesota

HAZLETON ENVIRONMENTAL SCIENCES

YEAGER, L. E. 1949. Effect of permanent flooding in a river-bottom timber area. Ill. Dept. Cons., Coop. Wildlife Research. 25(2):33-65.

Abstract: Written request sent; could not locate.

Keywords: Illinois, Flood, River bottom

YOUNG, G. 1971. That Damned Missouri River. National Geographic. 140(3):374-413.

Abstract: An article on the history, industry, and recreation of the Missouri River from its source in Montana to where it empties into the Mississippi.

Keywords: Missouri River, History, Recreation

HAZLETON ENVIRONMENTAL SCIENCES

ZON, R. 1929. Forests as a factor in flood control within the Upper Mississippi River basin. U. S. Cong., 70th, 2nd Session, House Doc. 573, relation of forestry to the control of floods in the Mississippi Valley.

Abstract: Insufficient citation; could not locate.

Keywords: Flooding

AGENCIES

○ ANONYMOUS. 1960. Walleye and sauger study, April 6, 1959 to March 31, 1960. Minn. Dept. Cons.

Abstract: Written request sent; no response.

Keywords: Walleye, Sauger, Survey

ANONYMOUS. 1965. Upper Mississippi River base in floods of April-May, 1965. U.S. House Committee Print No. 13.

Abstract: Insufficient citation; could not locate.

Keywords: Survey, Upper Mississippi River, Flooding

ANONYMOUS. 1971. Walton league fighting thermal pollution threat. Outdoor America. 36(10):1.

Abstract: Written request sent; could not locate.

Keywords: Thermal effluent, Pollution, Water quality, Nuclear power

○ BOARD OF ENGINEERS FOR RIVERS AND HARBORS. 1976. Locks and Dam No. 26 (Replacement), Mississippi River, Alton, Illinois. 24 February 1976.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26, Illinois

COMMONWEALTH EDISON COMPANY. 1973. Quad-Cities Station, Units 1 and 2. Hypochlorination Test Program. Chicago, Ill. 33 p.

Abstract: Phone request; no response.

Keywords: Water quality, Nuclear power

COMMONWEALTH EDISON COMPANY. 1974. Quad-Cities Station, Units 1 and 2. Semiannual Report on Radioactive Waste and Environmental Monitoring, July 1, 1973--December 31, 1973. Chicago, Ill. 65 p.

Abstract: Phone request; no response.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Survey, Water quality, Nuclear power

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION. 1965. Summary and pollution abatement, recommendations for the Upper Mississippi River and major tributaries. USDI, FWPCA, Twin Cities-Upper Miss. River Proj. 41 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Pollution, Upper Mississippi River, Water quality

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION. 1966. Upper Mississippi River basin project study plan for the comprehensive water pollution control program.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Pollution, Water quality, Survey

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION. 1967. A report on the immediate water pollution control needs of the Upper Mississippi River main stem - Minnesota, Wisconsin and Iowa.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Pollution, Water quality, Minnesota, Wisconsin, Iowa

FEDERAL WATER POLLUTION CONTROL ADMINISTRATION. 1969. Mississippi River study - report of sampling from Dubuque to Bellevue, Iowa: September 15 to 26, 1969. Lake Michigan Basin Office, U.S. Dept. of the Interior, Chicago, Illinois. 18 pp.

Abstract: During the period from July 22 to August 1, 1969 the Federal Water Pollution Control Administration conducted a two-week reconnaissance and sampling survey of the Mississippi River from Dubuque, Iowa to below Keokuk, Iowa.

On the basis of this initial study, it was recommended that additional, more intensive studies be conducted at a number of areas where evidence of water pollution was found.

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The stretch of the Mississippi River from Dubuque to Bellevue, Iowa was selected as the site of one of these intensive studies for two major reasons.

The first was that of Iowa Water Pollution Control Commission had itself schedule studies for a number of the areas pointed at by the initial survey and it was felt that there was no need to duplicate the proposed state effort. The second reason was that Dubuque was already in the process of installing secondary treatment so that a study conducted before the secondary plant went on line would provide valuable baseline data for assessing improvements in water quality.

The study consisted of chemical, biological and microbiological sampling at seven river transects for the period September 15 to September 26, 1969.

The Iowa Water Pollution Control Commission has designated the Mississippi River for recreation and warm water aquatic life uses and, therefore, it must meet the water quality standards established to protect those uses. In the following discussion of the study's findings sampling data is related to those standards.

Keywords: Survey, Iowa, Water quality

FEDERAL WATER QUALITY ADMINISTRATION. 1964. Proceedings of the conference in the matter of pollution of the interstate and intrastate waters of the Upper Mississippi River and its tributaries - Minnesota-Wisconsin.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Wisconsin, Upper Mississippi River, Pollution, Water quality

FEDERAL WATER QUALITY ADMINISTRATION. 1965. Report on existing and potential conditions of the interstate waters of the St. Croix River from Prescott, Wisconsin to Stillwater, Minnesota. February, 1965.

Abstract: Insufficient citation; could not locate.

Keywords: Wisconsin, Minneosta, Water quality

HAZLETON ENVIRONMENTAL SCIENCES

FEDERAL WATER QUALITY ADMINISTRATION. 1969. Water supply and water quality control study, Minnesota River basin reservoirs, Minnesota-South Dakota-Iowa. July, 1969.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Iowa, Water quality

FISH COMMISSIONER OF ILLINOIS. 1884, 1894-98, 1903-08. Reports.

Abstract: Insufficient citation; could not locate.

Keywords: Fish

ILLINOIS DEPARTMENT OF CONSERVATION. 1942. Illinois game and food fish. 36 pp.

Abstract: Written request sent; could not locate.

Keywords: Illinois, Fish, Sport fishing

ILLINOIS DEPARTMENT OF CONSERVATION. 1958a. Review of Proposed Access Areas for the Mississippi River.

Abstract: Written request sent; could not locate

Keywords: Survey

ILLINOIS DEPARTMENT OF CONSERVATION. 1958b. Management Plan. General Plan and Cooperative Agreement Lands Mississippi River.

Abstract: Written request sent; could not locate

Keywords: Habitat management, Survey

ILLINOIS DEPARTMENT OF CONSERVATION. 1962. 1962 Mississippi River sport fishing creel census procedures. Div. Fish., Springfield. 17 pp + App.

Abstract: The Upper Mississippi River Conservation Committee consisting of the conservation agencies from the State of Minnesota, Wisconsin, Iowa, Missouri and Illinois will conduct a co-ordinated sport fishing creel census during 1962. This creek is being concentrated on a few pools of the Mississippi River in order to obtain more reliable data. The pools that will be worked in 1962 are:

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Illinois	Pools 13 and 26
Iowa	Pools 11 and 18
Wisconsin	Pool 7
Minnesota	Pools 4 and 5

The creel is being co-ordinated so the procedure for data collection by each individual state is the same. This study is being planned for the same pools and sections within the pools every 5 years. The schedule for the creel census, and procedure for the fishermen count, creel census, catch study and aerial counts is outlined.

Keywords: Sport fishing, Creel census, Pools 4, 5, 7, 11, 13, 18 and 26

ILLINOIS DEPARTMENT OF CONSERVATION. 1964. Illinois fishing guide. Div. of Fish., Springfield, 44 pp.

Abstract: Written request sent; could not locate.

Keywords: Fishing, Sport fishing, Illinois

ILLINOIS DEPARTMENT OF CONSERVATION. 1972. Recommended fishermen access sites and potential surface water reservoirs. Spec. Fish. Rept. 34. 21 pp.

Abstract: Written request sent; could not locate.

Keywords: Fishing, Sport fishing, Reservoir

ILLINOIS DEPARTMENT OF CONSERVATION. 1973a. 1972 Mississippi River - Pool 13 Sport Fishing Creel Census. Special Report No. 38. Div. of Fisheries.

Abstract: Written request sent; could not locate.

Keywords: Survey, Creel census, Sport fishing, Illinois, Pool 13

ILLINOIS DEPARTMENT OF CONSERVATION. 1973b. Rare and Endangered fish of Illinois.

Abstract: Written request sent; could not locate.

Keywords: Rare species, Endangered species, Fish, Illinois

HAZLETON ENVIRONMENTAL SCIENCES

ILLINOIS DEPARTMENT OF CONSERVATION. 1977. Replacement of Alton Locks and Dam 26: An interim report of the DOT to the Subcommittee on water resources of the Senate Public Works Committee. March.

Abstract: Written request sent; could not locate.

Keywords: Lock and Dam 26

ILLINOIS DEPARTMENT OF TRANSPORTATION. 1975. The replacement of Alton Locks and Dam 26: An advisory report of the DOT to the Senate Commerce Committee September.

Abstract: Insufficient citation; could not locate.

Keywords: Lock and Dam 26

IOWA CONSERVATION COMMISSION. 1960. Comparison between Iowa's quantitative and qualitative creel census, Mississippi River - 1960 (ana) Age class analyses, Mississippi trap - netting survey - 1960. Mimeo, unpublished. 5 pp.

Abstract: Office visited; could not locate

Keywords: Iowa, Fish, Creel census, Age and growth, Survey

IOWA CONSERVATION COMMISSION. 1971. Iowa canoe trips. 14 pp.

Abstract: A discussion of canoeing areas in Iowa. Sections of streams and rivers are described as to the history, habitat, access to stream and any dam or rapids. Maps of the sections are given.

Keywords: Iowa, Recreation

IOWA STATE HYGIENIC LABORATORY. 1969a. Mississippi River water quality survey report - Davenport, Iowa - river miles 464.0 - 493.0 Report No. 70-7. Iowa City, Ia. 48 pp.

Abstract: The river reach encompassed by this survey is surrounded by the most heavily populated area existing on the Iowa reach of the Mississippi River. On the Iowa side of the river are the cities of Davenport and Bettendorf and on the Illinois side are East Moline, Moline and Rock Island. There are two Mississippi River pools most intimately involved in this area. Pool 15 is 10

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miles long and is bordered upstream by Lock and Dam 14 at Le Claire and downstream by Lock and Dam 15 at Davenport. Pool 16 extends from Davenport for 26 miles to Lock and Dam 16 at Muscatine, Iowa.

Davenport lies approximately in the center of a 56 mile reach of river which receives the most intensive waste loading of the entire Iowa reach. Clinton, which is approximately 30 river miles upstream from Davenport discharges 302,000 population equivalents. Davenport - Bettendorf discharges approximately 210,000 population equivalents and 26 miles downstream, Muscatine discharges 300,000 population equivalents. This represents a total of 812,000 population equivalents from Iowa industries and municipalities in a 56 mile long reach of the river or 52% of the total waste loading into 18% of the total Iowa reach of 312 miles. This does not include the quantities of waste discharged by the three Illinois cities across the river from Davenport.

This is not the first study which has been made in the Davenport area. In September, 1968, samples were taken primarily to determine channel water quality and to evaluate the heat contribution of the Riverside Power Plant. In February, 1969, the area was surveyed again with more emphasis placed on evaluating the chemical and bacteriological effects of the Davenport Sewage Treatment Plant discharge on the river while it was largely ice-covered. The results of both these studies were reported to the Iowa Water Pollution Control Commission shortly after their completion and also appear in Appendix A and B to this report.

Flow in the river at the time of chemical and bacteriological sampling was relatively low. Information from the U.S. Corps of Engineers indicated that the discharge rates at Lock and Dam 14 were 34,700 cfs and 33,800 cfs on September 2 and 3 respectively. This is a flow comparable to that which existed during the February study.

Keywords: Water quality, Iowa, Survey, Pools 15 and 16, Flow

IOWA STATE HYGIENIC LABORATORY. 1969b. Mississippi River water quality survey report - Muscatine, Iowa area - river miles 439.5 - 456.3. Submitted to the Iowa Water Pollution Control Commission. Iowa City, Iowa. Mimeo. 27 pp.

Abstract: Lab visited; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Iowa, Water quality, Survey

IOWA STATE HYGIENIC LABORATORY. 1969c. Mississippi River water quality survey report - Clinton, Iowa area - river miles 501.2 - 517.6. Submitted to the Iowa Water Pollution Control Commission. 32 pp.

Abstract: Lab visited; could not locate.

Keywords: Survey, Iowa, Water quality

IOWA STATE HYGIENIC LABORATORY. 1969d. Mississippi River water quality survey report - Fort Madison, Iowa area - river miles 377.3 - 383.3. Submitted to the Iowa Water Pollution Control Commission. Iowa City, Iowa. Mimeo. 29 pp.

Abstract: Ft. Madison and its associated industries are located on the largest pool of the upper Mississippi River. Pool 19 is 47 miles in length bounded by lock and dam 18 to the north near Gladstone, Illinois, and lock and dam 19 to the south of Keokuk. Insofar as commercial fishing is concerned, pool 19 is one of the three top producing pools for total species and heads the list for commercial catch in catfish, based on a twelve year average.

Ft. Madison is located about 16 river miles upstream from Keokuk or, in other words, two-thirds of the way down pool 19. The river in the Ft. Madison area is geographically quite different than the areas previously studied at Clinton and Muscatine. It spreads out immediately downstream from Ft. Madison, reaching a width of more than 2 miles in the study area, and begins to take on the characteristics of a lake, rather than a river. This situation plus location of the Crandon Paper Mill and Ft. Madison Treatment Plant provided a unique set of circumstances which will be discussed later in this report.

Other than casual observation, the first studies made by the Limnology Division were last February, when the river was primarily ice-covered and ice conditions were such that it was impossible to collect samples from more than a few locations. This was done and analytical results indicated that the Crandon Paper Mill and the Ft. Madison sewage treatment plant wastes were causing elevated fecal coliform bacterial counts in the area plus increases in the biochemical oxygen demand and

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significant depressions in dissolved oxygen concentrations although the Iowa Water Quality Standards for ammonia and dissolved oxygen were not being violated.

In early June, 1969, a biological investigation was made in the Ft. Madison area and a follow-up chemical and bacteriological water quality investigation was made in early August. The findings of these studies are reported here.

Keywords: Water quality, Survey, Iowa, Pool 19

IOWA STATE HYGIENIC LABORATORY. 1970. Report on Schricker Slough fish-taint episode. Rept. No. 70-30. Clinton, Iowa. 6 p.

Abstract: After reports from fishermen that their cooked fish had a foul odor, investigations were conducted on Schricker Slough and Rock Creek. On-site tests revealed a "slug" of contaminated water moving slowly through the ice-covered slough. Because the odor of the tainted samples was similar to that in the vicinity of the Chemplex Company they were contacted to discuss the possibility of a spill from their firm. Limnologists conducted investigations on the effluents and drainage from the plant and found no breaks, leaks or spills. It was later discovered that tank trucks hauling compounds from Chemplex were flushed and steamcleaned, with the drainage and run-off flowing directly into Rock Creek.

Keywords: Slough, Fish, Pesticides

IOWA STATE HYGIENIC LABORATORY. 1971a. Pesticide residues in the eggs of some Iowa fish. Report No. 72-6. Iowa City, Iowa, 5 p.

Abstract: Lab visited; could not locate.

Keywords: Pesticides, Fish, Iowa

IOWA STATE HYGIENIC LABORATORY. 1971b. Report of the Quad-Cities Nuclear Plant hearing regarding effects of thermal wastes on the Mississippi River. Submitted to the Iowa Water Pollution Control Commission.

Abstract: Lab visited; could not locate.

Keywords: Pool 14, Illinois, Iowa, Lock and Dam 13 and 14, Slough, Nuclear power

HAZLETON ENVIRONMENTAL SCIENCES

IOWA WATER POLLUTION CONTROL COMMISSION. 1966. Iowa water pollution control law-Code of Iowa 1966. (Printing of chapters 455B, water pollution control referred to in 455.22 - pesticides, 206.3, subsection 2d and miscellaneous provisions.) State Dept. of Health, Des Moines, Iowa. 15 pp.

Abstract: Written request sent; could not locate.

Keywords: Iowa, Water quality

IOWA WATER POLLUTION CONTROL COMMISSION. 1967. Water quality criteria and plan for implementation and enforcement for the surface waters of Iowa. Adopted by the Iowa Water Pollution Control Commission, State Dept. of Health, May 1967. Des Moines, Iowa. 90 pp.

Abstract: Written request sent; could not locate.

Keywords: Iowa, Water quality

IOWA WATER POLLUTION CONTROL COMMISSION. 1968. Water quality criteria and plan for implementation and enforcement for the surface waters of Iowa. Adopted by the Iowa Water Pollution Control Commission, State Dept. of Health, May 1967. Des Moines, Iowa. (Revised June 1, 1968.) 89 pp.

Abstract: Written request sent; could not locate.

Keywords: Iowa, Water quality

IOWA WATER POLLUTION CONTROL COMMISSION. 1969. Statement - In support of the Iowa water quality standards and plan for implementation and enforcement - Mississippi River basin. Iowa Water Pollution Control Commission, State Dept. of Health., Des Moines, Iowa. April 1969. 20 pp.

Abstract: Written request sent; could not locate.

Keywords: Iowa, Water quality

METROPOLITAN COUNCIL. 1969. Major river corridor study. An inventory of physical features and facilities within the major river corridors in the Twin Cities Metropolitan Area (Appendix A). Metro. Council. 46 pp.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Geology, Channelization

METROPOLITAN COUNCIL. 1975. Study of solid waste management and resources recovery in the Twin-Cities Metropolitan Area. Summary, Conclusions, and Recommendations. Metro. Council. 24 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Survey

METROPOLITAN DRAINAGE COMMISSION OF MINNEAPOLIS AND ST. PAUL. 1928. Second Annual Report Sewage Disposal of Minneapolis, St. Paul and Contiguous Areas. 12 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Water quality, Pollution

METROPOLITAN PLANNING COMMISSION. 1960. Metropolitan water study, part I. Report 3, Twin-Cities, Minnesota.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Survey, Water quality

MINNEAPOLIS-ST. PAUL SANITARY DISTRICT. 1964. Summary report on a comprehensive sewage works plan for the Minneapolis-St. Paul metropolitan area.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Urbanization, Water quality

MINNEAPOLIS-ST. PAUL SANITARY DISTRICT AND THE UNIVERSITY OF MINNESOTA. 1961. Pollution and recovery characteristics of the Mississippi River, Vol. I, Part 3, Minneapolis.

Abstract: Written request sent; no response.

Keywords: Pollution, Water quality

HAZLETON ENVIRONMENTAL SCIENCES

MINNESOTA DEPARTMENT OF CONSERVATION. 1959. Limnological studies, May 5, 1959 to October 31, 1959.

Abstract: Office visited; could not locate.

Keywords: Limnology, Survey, Minnesota

MINNESOTA DEPARTMENT OF CONSERVATION. 1963. Waterfowl mortality caused by oil pollution of the Minnesota and Mississippi Rivers in 1963. Minn. Dept. Cons. Div. Game Fish. Mimeo. report.

Abstract: Written request sent; no response.

Keywords: Waterfowl, Pollution, Minnesota River, Minnesota, Mortality

MINNESOTA DEPARTMENT OF CONSERVATION. 1964. Game and fish values of the Mississippi River between the Rum River at Anoka and the Chippewa River below Lake Pepin. State of Minnesota, Dept. Cons., Div. Game Fish, Mimeo.

Abstract: Written request sent; no response.

Keywords: Game, Fish, Survey, Lake Pepin, Wisconsin, Minnesota

MINNESOTA DEPARTMENT OF HEALTH. 1928. Report of the investigations of pollution of the Mississippi River, Minneapolis-St. Paul to LaCrosse.

Abstract: Written request sent; no response.

Keywords: Survey, Pollution, Water quality

MINNESOTA DEPARTMENT OF HEALTH. 1933. Bacteria and water quality data. Unpublished.

Abstract: Written request sent; no response.

Keywords: Bacteria, Water quality, Survey

MINNESOTA DEPARTMENT OF HEALTH. 1940. Biological examination of sediments, St. Cloud to Fridley. Unpublished.

Abstract: Written request sent; no response.

Keywords: Survey, Limnology, Minnesota, Sediment

HAZLETON ENVIRONMENTAL SCIENCES

MINNESOTA DEPARTMENT OF HEALTH. 1947. Phytoplankton data from Lock and Dam nos. 2, 3, 4, 5 and 6. Unpublished.

Abstract: Written request sent; no response.

Keywords: Phytoplankton, Survey, Lock and Dam Nos. 2-6, Minnesota

MINNESOTA DEPARTMENT OF HEALTH. 1948a. Phytoplankton data, Hastings to Lock and Dam 4. Unpublished.

Abstract: Written request sent; no response

Keywords: Phytoplankton, Survey, Lock and Dam 4, Minnesota

MINNESOTA DEPARTMENT OF HEALTH. 1948b. Mississippi River survey, Hastings to LaCrosse. Mimeo.

Abstract: Written request sent; no response.

Keywords: Survey

MINNESOTA DEPARTMENT OF HEALTH. 1953. Water pollution in the Upper Mississippi River Basin. U.S.H.E.W. Public Health Service Appendices.

Abstract: Written request sent; no response.

Keywords: Pollution, Water quality, Upper Mississippi River

MINNESOTA DEPARTMENT OF HEALTH. 1958. Memorandum on investigation of radioactivity in the Mississippi River from Elk River to Hastings, July 22 - August 1, 1957 and July 22 - August 14, 1958. Minn. Dept. Health, Div. Environ. Sanitation, Sect. Water Poll. Control. Mimeo.

Abstract: Written request sent; no response.

Keywords: Minnesota, Water quality

MINNESOTA DEPARTMENT OF HEALTH. 1960. Compilation of Lower Mississippi River data from St. Paul to Hastings, 1946-60. Unpublished.

Abstract: Written request sent; no response.

Keywords: Minnesota, Water quality

HAZLETON ENVIRONMENTAL SCIENCES

MINNESOTA DEPARTMENT OF HEALTH. 1963. Water quality sampling program. Minnesota lakes and streams.

Abstract: Written request sent; no response.

Keywords: Minnesota, Survey, Water quality

MINNESOTA DEPARTMENT OF NATURAL RESOURCES. (Undated.) Index list of special publications which contains 27 titles of reconnaissance surveys on streams tributary to the Mississippi and Minnesota rivers.

Abstract: Written request sent; no response.

Keywords: Survey, Minnesota

MINNESOTA DEPARTMENT OF NATURAL RESOURCES. 1973. Interstate operations of commercial fishing. Unpublished.

Abstract: Written request sent; no response.

Keywords: Minnesota, Commercial fishing

MINNESOTA HISTORICAL SOCIETY, LIBRARY. 1866-67, 1869, 1877, 1880-81, 1884. Upper Mississippi River improvement convention, reports.

Abstract: A convention assembled in Washington, D.C. with the object to take council in regard to the means necessary for improving the Mississippi River and its managable tributaries.

Keywords: Survey, Management, Navigation

MINNESOTA OUTDOOR RECREATION RESOURCES COMMISSION. 1964. The great river road in Minnesota. Study Rept. No. 12.

Abstract: Written request sent; no response

Keywords: Minnesota, Recreation, Survey

MINNESOTA MUNICIPALITIES, LEAGUE OF MINNESOTA MUNICIPALITIES. 1964. Summary of progress in water pollution control in Minnesota, April, 1965. 50(6).

Abstract: Insufficient citation; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Minnesota, Water quality, Pollution

MINNESOTA POLLUTION CONTROL AGENCY. 1968a. Report on the investigation of water quality of Wolf, Andalusia and Cass Lakes.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Water quality

MINNESOTA POLLUTION CONTROL AGENCY. 1968b. Memorandum on the waste assimilation capacity of the lower thirty miles of the Minnesota River.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Minnesota River, Water quality

MINNESOTA POLLUTION CONTROL AGENCY. 1968c. Investigation of Spring Creek.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Survey

MINNESOTA POLLUTION CONTROL AGENCY. 1969. Memorandum on the waste assimilation capacity of the Mississippi River in the Twin Cities Metropolitan Area.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Survey, Water quality

MINNESOTA POLLUTION CONTROL AGENCY. 1970. Water quality sampling program of Minnesota lakes and streams, 1967-1969, Volumes 6 and 7.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Survey, Water quality

MINNESOTA POLLUTION CONTROL AGENCY. 1972a. Memorandum on the water quality of the Mississippi River in the vicinity of MSB Metro plant discharge, June 5-9, 1972. Mimeo.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Water quality, Discharge

MINNESOTA POLLUTION CONTROL AGENCY. 1972b. Memorandum on survey of polychlorinated biphenyls in waters of the Twin Cities Metropolitan Area.

Abstract: Written request sent; could not locate.

Keywords: Chlorinated hydrocarbons, Survey, Minnesota, Water quality

MINNESOTA POLLUTION CONTROL AGENCY. 1973. Minnesota state regulations. Rules, regulations, classifications, and water standards. Supplement: WPC 14, 15, 22, 24, 25. Doc. Sect., Dept. Admin. of State of Minn. 101 pp.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Water quality

MINNESOTA STATE BOARD OF HEALTH. 1928. Report of the investigation of the pollution of the Mississippi River, Minneapolis to La Crosse, in collaboration with Minn. Comm. of Game and Fish and Wis. St. Bd. of Health. pp. 3-143.

Abstract: Written request sent; could not locate.

Keywords: Pollution, Water quality, Minnesota, Wisconsin

MINNESOTA WATER POLLUTION CONTROL COMMISSION. 1963. Long-range water pollution control plan and program.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Water quality, Pollution

MINNESOTA WATER POLLUTION CONTROL COMMISSION. 1964. Water pollution control statutes.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Water quality, Pollution

HAZLETON ENVIRONMENTAL SCIENCES

MINNESOTA WATER POLLUTION CONTROL COMMISSION. 1967. Interstate water quality standards.

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Water quality

MISSISSIPPI FLYWAY COUNCIL. 1958. Waterfowl distribution and migration in the Mississippi flyway. 20 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Waterfowl, Distribution, Migration

MISSISSIPPI RIVER WORK UNIT. 1976. Mississippi River Work Unit Accomplishment Report 1975-76. Wis. Dept. Nat. Res., La Crosse. Unpublished.

Abstract: This report is a compilation of summaries of sixteen studies on the fish and wildlife of the Upper Mississippi River. Included among the 16 studies are creel censuses, studies on pike, frogs, diving ducks, wild turkeys - all in pools 7, 8 and 9.

Keywords: Fish, Wildlife, Creel census, Pools 7, 8 and 9

MISSISSIPPI RIVER WORK UNIT. 1977. Mississippi River Work Unit Annual Report 1976-1977. Wis. Dept. Nat. Res., La Crosse. Unpublished.

Abstract: This report is a compilation of summaries of 20 studies on the fish and wildlife of the Upper Mississippi River. Included among the 20 studies are creel censuses, studies on pike, frogs, diving ducks, wild turkeys - all in pools 7, 8 and 9.

Keywords: Fish, Wildlife, Creel census, Pools 7, 8 and 9

MISSISSIPPI RIVER WORK UNIT. 1978. Mississippi River Work Unit Annual Report 1977-1978. Wis. Dept. Nat. Res., La Crosse. Unpublished.

Abstract: This report is a compilation of summaries of studies on the fish and wildlife of the Upper Mississippi River. Included are creel censuses, studies on pike, frogs, diving ducks, wild turkeys - all in pools 7, 8 and 9.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Fish, Wildlife, Creel census, Pools 7, 8 and 9

MISSISSIPPI WATER RESOURCES CONFERENCE, PROCEEDINGS. 1969. 169 p.

Abstract: Insufficient citation; could not locate.

Keywords: Water quality

MISSISSIPPI WATER RESOURCES CONFERENCE, PROCEEDINGS. 1970. 199 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Flooding, Water quality, Pollution

MISSOURI BOTANICAL GARDENS. 1975. Environmental Inventory and Assessment of Navigation Pools 24, 25 and 26 Upper Mississippi and Lower Illinois Rivers: A vegetational study: USAEWESCE, Vicksburg, Mississippi. 114 + 18 pp.

Abstract: Written request sent; no response.

Keywords: Pools 24, 25 and 26, Upper Mississippi River, Vegetation, Survey

MISSOURI DEPARTMENT OF CONSERVATION. 1973. A proposed system for evaluating wildlife loss compensation on water development projects. Mimeo.

Abstract: Written request sent; no response.

Keywords: Missouri, Wildlife, Habitat alteration

MISSOURI DEPARTMENT OF CONSERVATION. 1977. Annual Management Plan for Upper Mississippi Wildlife Area.

Abstract: Written request sent; no response.

Keywords: Missouri, Wildlife, Upper Mississippi River, Management

MISSOURI FISH COMMISSION. 1879-1931. Reports.

Abstract: Insufficient citation; could not locate.

Keywords: Missouri, Fish, Survey

HAZLETON ENVIRONMENTAL SCIENCES

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION. 1974. Satellite and Aircraft Sensor Detect Fish Schools. Newsrelease. 9 p.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Survey

NATIONAL WATER QUALITY LABORATORY. (Undated)a. List of 56 publications by staff members. Duluth, Minnesota.

Abstract: Insufficient citation; could not locate.

Keywords: Water quality, Minnesota

NATIONAL WATER QUALITY LABORATORY. (Undated)b. Quarterly Research Report lists research projects, papers submitted for publication and papers published. Duluth, Minnesota.

Abstract: Insufficient citation; could not locate.

Keywords: Research, Minnesota, Water quality

NORTHERN STATES POWER COMPANY. 1967. Northern States Power Company's anti-pollution program in the Twin Cities metropolitan area.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Pollution, Water quality

NORTHERN STATES POWER COMPANY. 1968-1969. Environmental monitoring program annual report. Allen S. King Generating Plant, Oak Park Heights, Minnesota.

Abstract: Written request sent; could not locate.

Keywords: Minnesota, Survey, Power

PEAT, MARWICK, MITCHELL AND CO. 1975. Evaluation of operational improvements at Locks and Dam 26, Mississippi River. July, 1975.

Abstract: Phone request; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Lock and Dam 26

SEDIMENTATION LABORATORY. 1978. An assessment of the sediment accumulation in Pool no. 8 of the Upper Mississippi River. Submitted to Great Sediment and Erosion Work Group and Soil Conservation Service, St. Paul, Oxford, Mass.

Abstract: Insufficient citation, could not locate.

Keywords: Sediment, Pool 8, Upper Mississippi River, Geology, Survey

SOUTH DAKOTA FEDERAL POWER COMMISSION, BUREAU OF POWER. 1964. Water resource appraisals for hydroelectric licensing, Mississippi basin above Twin Cities, Minnesota. (Planning status report.)

Abstract: Insufficient citation; could not locate.

Keywords: Minnesota, Water quality

SVERDRUP & PARCEL AND ASSOCIATES, INC. 1976. Locks and Dam 26 rehabilitation study. Prep. for Nat. Comm. on Locks and Dam 26. June, 1976.

Abstract: Written request sent; no response

Keywords: Lock and Dam 26

U.S. ARMY CORPS OF ENGINEERS. Undated. Review of reports on Mississippi River between the Missouri River and Minneapolis, Minnesota. Appendix 11 ground water. (Report on estimated damages that may be caused to farm and pasture lands and buildings in Minnesota, Wisconsin and Iowa, pools 3-11.)

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Missouri River, Minnesota, Hydrology, Habitat alteration, Commercial fishing, Wisconsin, Iowa

U.S. ARMY CORPS OF ENGINEERS. 1935a. Middle and Upper Mississippi River, Ohio River to Minneapolis. St. Louis District.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Middle Mississippi River, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1935b. Report on sedimentary characteristics of the Upper Mississippi River. St. Paul Dist. St. Paul, MN.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Sedimentation, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1938. The Upper Mississippi River navigation improvement providing a 9-foot channel depth between Minneapolis and the Missouri River. UMVD. St. Louis. 17 pp.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Navigation, Minnesota, Channelization

U.S. ARMY CORPS OF ENGINEERS. 1940a. Navigation charts Middle and Upper Mississippi River. U.S. Division Engineer Office. Upper Mississippi Valley Division, St. Louis, Missouri.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Navigation, Middle Mississippi River, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1940b. The middle and upper Mississippi River. Ohio River to Minneapolis. War Dept., Div. Engineer, U.M.V.O., St. Louis, MO. U.S. Govt. Printing Office, Washington, D.C. 345 pp.

Abstract: Corps office in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Middle Mississippi River, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1941. The Upper Mississippi River navigation improvement. U.S. Div. Engineer. U.M.V.D. St. Louis, MO.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Navigation, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1947. Navigation charts Middle and Upper Mississippi River. U.S. Division Engineer Office. Upper Mississippi Valley Division, St. Louis, Missouri. 56 charts.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Navigation, Middle Mississippi River, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS, 1948. The Middle and Upper Mississippi River. Govt. Printing Office, Washington, D.C.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Middle Mississippi River, Upper Mississippi River

U.S. ARMY CORPS OF ENGINEERS. 1964. Upper Mississippi River comprehensive basin study of water and lands resources. Information Bull.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Upper Mississippi River, Vegetation, Water quality

U.S. ARMY CORPS OF ENGINEERS. 1965-67. Regulating Mississippi River Navigation Pools. St. Louis, MO.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Navigation, Regulations

U.S. ARMY CORPS OF ENGINEERS. 1968. Report on replacement Lock and Dam No. 26 Mississippi River, Alton, main report. St. Louis Dist. (June).

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

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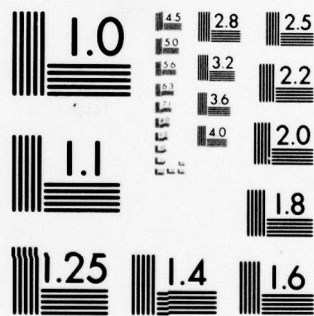
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HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Lock and Dam 26

U.S. ARMY CORPS OF ENGINEERS. 1970. Mississippi River year-round navigation, plan of survey (overall study). North Central Division, Chicago, Illinois.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Survey, Navigation, Commercial boat traffic

U.S. ARMY CORPS OF ENGINEERS. 1971. Mississippi River 12-foot navigation channel study: dredging quantities and locations in Rock Island District. Rock Island Dist., Clock Tower Bldg., Rock Island, Illinois.

Abstract: Maps and tables indicating locations and quantities of dredging necessary for 1, 2 and 3 foot dredging in pools 11 through 22.

Keywords: Dredging, Pools 11-22, Channelization

U.S. ARMY CORPS OF ENGINEERS. 1972a. Phase I Report: Mississippi River - Ill. Waterway 12-Foot Channel Study: North Central Division, Chicago, Illinois, 46 pp.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Channelization, Survey

U.S. ARMY CORPS OF ENGINEERS. 1972b. Environmental Statement. Rush Island Proposed Power Plant. Units 1 & 2, Union Electric Co. St. Louis District, St. Louis, Missouri.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Survey, Limnology, Thermal effluent, Plankton

U.S. ARMY CORPS OF ENGINEERS. 1975. Draft Environmental Statement. Operation and Maintenance of Pools 24, 25 and 26, Mississippi and Illinois Rivers. St. Louis District, St. Louis, Missouri.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Pools 24, 25, 26, Illinois River

U.S. ARMY CORPS OF ENGINEERS. 1976a. Final Environmental Statement. Mississippi River between the Ohio and Missouri Rivers Regulating Works. St. Louis District.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Ohio River, Missouri River

U.S. ARMY CORPS OF ENGINEERS. 1976b. "Quantitative and Qualitative Analysis of Pre and Post Wildlife Habitat Conditions Resulting from Nine-foot Navigation Channel, Upper Mississippi River (Pools 11-22). Rock Island District, Rock Island, Illinois.

Abstract: This report provides a broad comparative analysis of the quantitative and qualitative changes in fish and wildlife habitat resulting from construction, operation, and maintenance of the Nine-Foot Channel Navigation project on the Upper Mississippi River. This particular report was designed to develop an assessment of the extent and condition of various terrestrial and aquatic habits prior to channel construction (1927) and to equate condition 48 years (1975) later. The specific objectives of the study are:

1. To determine changes in the area of aquatic terrestrial habitat types resulting from creation of the navigation pools.
2. To determine terrestrial habitat classes that were present prior to pool formation and were submerged by the pool as well as broad terrestrial habitat conditions that would eventually be above pool elevation within project boundaries and adjacent flood plain.
3. The determination of the broad aquatic habitat conditions existing prior to pool formation and the extent and condition of these habitats after pool formation.

Keywords: Habitat alteration, Navigation, Channelization, Upper Mississippi River, Pools 11-22, Survey

HAZLETON ENVIRONMENTAL SCIENCES

U.S. ARMY CORPS OF ENGINEERS. 1976c. Revised Draft Supplement. Environmental Statement. Vol. 1 Lock and Dam No. 26 (Replacement) Upper Mississippi River Basin, Mississippi River - Alton, Ill.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Lock and Dam 26, Upper Mississippi River, Missouri River, Illinois

U.S. ARMY CORPS OF ENGINEERS. 1976d. Final Environmental Statement, Locks and Dam No 26, Mississippi River, Alton, Illinois. Vols. I and II. Office of the Chief of Engineers, Wash. D.C. 20314.

Abstract: Corps offices in St. Louis, St. Paul and Rock Island visited; could not locate.

Keywords: Illinois, Lock and Dam 26, Survey

U.S. COMMISSIONER OF FISHERIES. 1894. Report of the U.S. Commissioner of Fish and Fisheries for the year ending June 30, 1892. Washington, D.C. pp.7-87.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Survey, Commerical fishing

U.S. COMMISSIONER OF FISHERIES. 1910. Report of the U.S. Commissioner of Fisheries for the fiscal year 1909. Washington, D.C. 38 pp.

Abstract: Insufficient citation, could not locate.

Keywords: Fish, Survey, Commerical fishing

U.S. COMMISSIONER OF FISHERIES. 1912. Report of the U.S. Commissioner of Fisheries for the fiscal year ending June 30, 1911. Washington, D.C. 70 pp.

Abstract: Insufficient citation, could not locate.

Keywords: Fish, Survey, Commerical fishing

HAZLETON ENVIRONMENTAL SCIENCES

U.S. COMMISSIONER OF FISHERIES. 1916. Report of the U.S. Commissioner of Fisheries for 1916. Bur. Fish. Doc. No. 836, Washington, D.C.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Survey, Commercial fishing

U.S. CONGRESS. House. 1957. Mississippi River at St. Louis and South St. Paul, Minnesota. 85th Cong. 1st. Sess. House Doc. 223.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Minnesota

U.S. CONGRESS. House. 1971. Mississippi River at Winona, Minnesota. House Doc. 92-152 U.S. Govt. Printing Office.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Minnesota, Missouri River, Flooding, Iowa, Channelization

U.S. CONGRESS. House. Commerce Committee. 1856. Rapids of the Mississippi. House. Rept. 69, 34th Cong., 1st Sess. (868).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Navigation, Hydrology

U.S. CONGRESS. House. Commerce Committee. 1867a. Survey of Upper Mississippi River. H. Doc. 58, 39th Cong., 2nd Sess. (1292).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Survey, Upper Mississippi River

U.S. CONGRESS. House. Commerce Committee. 1867b. Survey of the Mississippi River. House. Doc. 79, 39th Cong. 2nd Sess. (1293).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Survey, Upper Mississippi River

HAZLETON ENVIRONMENTAL SCIENCES

U.S. CONGRESS. House. Committee on Internal Insular Affairs. 1972. Upper Mississippi River National Recreation Area. 123 pp.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Upper Mississippi River, Recreational boat traffic, Wildlife

U.S. CONGRESS. House. Levees and Improvements Committee. 1878. Improvement of the Mississippi River. House Rept. 714, 45th Cong., 2nd Sess. (1825).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Levees, Navigation

U.S. CONGRESS. House. Public Works Committee. 1949. Mississippi River at Prairie du Chien, Wisconsin. Doc. 71, 81st Cong., 1st Sess. (11323).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Wisconsin, Hydrology

U.S. CONGRESS. House. Rivers and Harbors Committee. 1904. Improvement of the Mississippi River. Hearings before the House Rivers and Harbors Committee, 18 January 1904. 58th Cong., 2nd Sess.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Navigation

U.S. CONGRESS. House. Rivers and Harbors Committee. 1919a. Mississippi Rivers between Missouri River and Minneapolis, Minnesota. Hearings on the subject of improvement of Mississippi River between Missouri River and Minneapolis, Minnesota, 18 February 1919. 66th Cong., 1st Sess.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Navigation

HAZLETON ENVIRONMENTAL SCIENCES

U.S. CONGRESS. House. Rivers and Harbors Committee. 1919b. Mississippi, Missouri and Ohio Rivers, and waterway from Lockport, Illinois to the mouth of the Illinois River. Hearings on the subject of improvement of Mississippi River between mouth of Ohio River and Minneapolis, Minnesota, Missouri River and Ohio River, and waterway from Lockport, Illinois to mouth of Illinois River, 9 December 1919. 66th Cong., 1st Sess.

Abstract: Unable to locate in major midwestern librareis.

Keywords: Missouri River, Ohio River, Navigation

U.S. CONGRESS. House. Rivers and Harbors Committee. 1926. Navigation and water power surveys. Hearings on the subject of surveys of streams with a view to formulating plans for improving navigation, developing water power, controlling floods and irrigating arid lands, 26 April 1926. 69th Cong., 1st Sess.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Navigation, Power, Survey, Flooding

U.S. CONGRESS. House. River and Harbors Committee. 1930. An act authorizing the construction, repair, and preservation of certain public works on rivers and harbors, and for other purposes. 71st Cong., Sess. II, H.R. 11781.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Development

U.S. CONGRESS. House. Rivers and Harbors Committee. 1932a. Survey of Mississippi River between Missouri River and Minneapolis. Report on survey of Mississippi River between Missouri River and Minneapolis, with a view to securing channel depth of nine feet at low water, with a suitable widths. Doc. 137, 72nd Cong., 1st Sess. (9550-2).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Channelization, Nine-foot channel, Navigation

HAZLETON ENVIRONMENTAL SCIENCES

U.S. CONGRESS. House. Rivers and Harbors Committee. 1932b. Mississippi river between mouth of Missouri River and Minneapolis. Hearings on the improvement of the Mississippi River between the mouth of the Missouri River and Minneapolis, 25, 16, and 27 January 1932. 72nd Cong., 1st Sess. 105 pp.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Navigation, Development

U.S. CONGRESS. Senate. Interstate and Foreign Commerce Committee. 1948. Maintenance of water level in Upper Mississippi River for wildlife conservation purposes. Hearing before the Senate Interstate and Foreign Commerce Committee on H.R. 2721, 27 April 1948. 80th Cong., 2nd Sess.

Abstract: Unable to locate in major midwestern libraries.

Keywords: Wildlife, Ecology, Habitat management

U.S. DEPARTMENT OF AGRICULTURE. Bureau of Public Roads. 1924. Overflowed lands on Mississippi River between St. Paul and Rock Island, and the practicability of reclaiming them of agriculture. July.

Abstract: Written request sent; could not locate.

Keywords: Flooding

U.S. DEPARTMENT OF COMMERCE. 1973. Grand Gulf Nuclear Station, Units 1 and 2. Draft Environmental Statement, Comments of Assistant Secretary of Commerce. Office of the Assistant Secretary of commerce, Washington, D.C. 2 p.

Abstract: Insufficient citation; could not locate.

Keywords: Nuclear power, Limnology, Birds, Plankton, Flood, Habitat alteration, Wildlife

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE. 1953. A comprehensive water pollution control program for the Mississippi-Wapsipinicon and tributaries Rivers basin developed by the State water pollution control agency of Illinois, Iowa, Minnesota and Wisconsin. Water Poll. Ser. 62. Pub. Health Serv. Pub. 347. 54 p.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Written request sent; no response.

Keywords: Pollution, Water quality, Wapsipinicon River

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE. 1955. A comprehensive program for water pollution control for the lower portion Upper Mississippi River basin. Pub. Health Serv. Water Poll. Ser. No. 71.

Abstract: Written request sent; no response.

Keywords: Pollution, Water quality

U.S. DEPARTMENT OF HEALTH EDUCATION AND WELFARE. 1962. Pollution of interstate waters of the Mississippi River, Iowa-Illinois transcript of conf. Clinton, Iowa (March 8, 1962).

Abstract: Written request sent; no response.

Keywords: Pollution, Water quality

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE. 1963. Report on oil spills affecting the Minnesota and Mississippi Rivers winter of 1962-63. Robt. A. Taft San. Engr. Cen., Cincinnati. 40 pp.

Abstract: Written request sent; no response.

Keywords: Petroleum, Pollution, Water quality

U.S. DEPARTMENT OF THE INTERIOR. 1913. Water-power development in relation to fishes and mussels of the Mississippi. Rept. Comm. for 1913. House Doc. 812, 63rd Cong., 2nd Sess. Bureau of Fisheries. (6701).

Abstract: Unable to locate in major midwestern libraries.

Keywords: Power, Fish, Mussels

U.S. DEPARTMENT OF THE INTERIOR. 1968. Mammals of the Upper Mississippi River Wildlife and Fish Refuge. Bur. Sport Fish and Wildl. leaflet 326.

Abstract: Written request sent; no response.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Upper Mississippi River Wildlife and Fish Refuge, Mammals, Survey

U.S. DEPARTMENT OF THE INTERIOR. 1970. Amphibians and reptiles of the Upper Mississippi River Wildlife and Fish Refuge. Bur. Sport. Fish and Wildl. leaflet 420.

Abstract: Written request sent; no response.

Keywords: Amphibians, Reptiles, Upper Mississippi River Wildlife and Fish Refuge, Species list

U.S. DEPARTMENT OF THE INTERIOR. 1973a. Grand Gulf Nuclear Station, Units 1 and 2. Draft Environmental Statement, Comments of United States Department of the Interior. Washington, D.C. 5 p.

Abstract: Insufficient citation; could not locate.

Keywords: Nuclear power, Fish, Water quality, Pollution, Thermal effluents, Wildlife

U.S. DEPARTMENT OF THE INTERIOR. Bureau of Sport Fisheries & Wildlife. 1973b. Upper Mississippi River Wilderness Study Summary. Upper Mississippi River Wildlife & Fish Refuge - Illinois, Iowa, Minnesota, Wisconsin.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Survey, Illinois, Iowa, Minnesota, Wisconsin, Upper Mississippi River Wildlife and Fish Refuge

U.S. DEPARTMENT OF THE INTERIOR. 1977. Upper Mississippi, a wild and scenic river study, final report and environmental impact statement. Bureau of Recreation.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Survey

U.S. DEPARTMENT OF WAR. Army Engineer Department. 1926. The middle and upper Mississippi River from Minneapolis to Lake Pepin. Doc. 583, 68th Cong., 2nd Sess. (8736).

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Unable to locate in major midwestern libraries.

Keywords: Lake Pepin, Minnesota

U.S. ENVIRONMENTAL PROTECTION AGENCY. 1971. Nitrates. Office of Water programs. 40 pp.

Abstract: EPA office visited; could not locate.

Keywords: Water quality, Chemistry

U.S. ENVIRONMENTAL PROTECTION AGENCY. 1973. Results from the Upper Mississippi River stream survey. Data taken for calibration of the computer method Qual II. Minnesota Pollution Control Agency, Metropolitan Sewer Board, and Water Resources Engineers. Unpublished.

Abstract: EPA office visited; could not locate.

Keywords: Water quality

U.S. ENVIRONMENTAL PROTECTION AGENCY. 1974. National water quality inventory. Report to Congress. Office of Planning and Standards, EPA. 305 pp.

Abstract: EPA Office visited; could not locate.

Keywords: Water quality

U.S. FISH AND WILDLIFE SERVICE. 1945. Fishery resources of the United States. USDI, Sen. Doc. No. 51. 135 pp.

Abstract: Written request sent; no response.

Keywords: Fish

U.S. FISH AND WILDLIFE SERVICE. 1952. Mississippi River fisheries 1950. C. F. S. 840, annual summary, 6 pp.

Abstract: Written request sent; no response.

Keywords: Commerical fishing

HAZLETON ENVIRONMENTAL SCIENCES

U.S. FISH AND WILDLIFE SERVICE. 1963. Upper Mississippi River dredge spoil survey - Rock Island Dist., U.S. Army Corps of Eng.; Wisconsin, Illinois, Iowa, and Missouri. Spec. Rept. on fish and wildl. resources. 8 pp + 22 charts.

Abstract: Written request sent; no response.

Keywords: Dredging, Fish, Wildlife

U.S. FISH AND WILDLIFE SERVICE. 1975. Hydrographic survey maps of the Lower Chippewa River below Durand.

Abstract: Written request sent; no response.

Keywords: Chippewa River, Hydrology

U.S. GEOLOGICAL SURVEY. Undated. Magnitude and frequency of floods in the United States, Part 5, Hudson Bay and Upper Mississippi River basins. Water Supply Paper 1678 (in review).

Abstract: Written request sent; no response.

Keywords: Upper Mississippi River, Flooding

U.S. GEOLOGICAL SURVEY. 1965. Report on hydrographic studies of the Mississippi, Minnesota and St. Croix Rivers.

Abstract: Written request sent; no response.

Keywords: Hydrology

U.S. GEOLOGICAL SURVEY 1973. Water Resources Review for April 1973. 14 p.

Abstract: Written request sent; no response.

Keywords: Water quality, Hydrology

U.S. PUBLIC HEALTH SERVICE. Undated. National water quality network, annual compilation of data. Public Health Service Publication No. 663. Washington, D.C.

Abstract: Written request sent; no response.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Water quality, Survey

U.S. PUBLIC HEALTH SERVICE. 1963. Pollution - caused fish kills in 1963. Public Health Service Publication No. 847. Washington, D.C. 26 pp.

Abstract: Written request sent; no response.

Keywords: Pollution, Fish, Mortality, Toxicant

UPPER MISSISSIPPI RIVER COMPREHENSIVE BASIN STUDY. 1970. Upper Mississippi River Comprehensive Basin Study Report. Vol. I: Main Report. 133 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Survey, Fish, Climatology, Hydrology, Recreation, Navigation, Geology

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1943. Organization meeting.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1945-1968. Proceedings of annual meetings. 4-24 pp. Mimeo.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1948. Test netting in the northern section. Fifth Progress Rept. of Tech. Comm. for Fish, Dec 17, 1948.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Fish, Commercial fishing

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1950a. Seasonal variations in the catch of experimental net. Sixth Prog. Rept. Tech. Comm. for Fish., Jan 20, 1950.

HAZLETON ENVIRONMENTAL SCIENCES

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Commercial fishing, Survey

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1950b. Catfish tagging experiment.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Commercial fishing, Survey

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1950c. Proceedings of the sixth annual meeting of the Upper Mississippi River Conservation Committee. Sixth Progress Rept. of the Tech. Comm. for Fish. Jan., 1950. Mimeo., pp 1-36.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1957. Supplemental report Fish Technical Sub-Committee. Supplement to the Proc. 13th Ann. UMRCC Mtg. (Jan. 4, 1957). 147 pp.

Abstract: Insufficient citation; could not locate.

Keywords: Fish, Upper Mississippi River

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1967. AS compendium of fishery information on the Upper Mississippi River Conservation Committee. Iowa Conservation Commission, Des Moines. 225 p.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Fish

UPPER MISSISSIPPI RIVER CONSERVATION COMMITTEE. 1969. 25 years of conservation through cooperation. Upper Mississippi River Conservation Committee, Davenport, IA. (Leaflet). 16 pp.

Abstract: Insufficient citation; could not locate.

HAZLETON ENVIRONMENTAL SCIENCES

Keywords: Upper Mississippi River

UPPER MISSISSIPPI VALLEY WATER USE COUNCIL. 1945. Proceedings of the organizational meeting.

Abstract: Insufficient citation; could not locate.

Keywords: Upper Mississippi River, Regulations

WISCONSIN DEPARTMENT OF NATURAL RESOURCES. 1891-92, 1907-18, 1934, 1937, 1947. Biennial reports (was Commissioner of Fisheries of Wisconsin, then Wisconsin State Conservation Department).

Abstract: Office visited; could not locate.

Keywords: Wisconsin, Commercial fishing

WISCONSIN DEPARTMENT OF NATURAL RESOURCES. 1971. Bibliography of Freshwater Wetlands Ecology and Management. Dept. of Nat. Res. Preliminary Draft. 230 pp.

Abstract: Office visited; could not locate.

Keywords: Wisconsin, Ecology, Vegetation, Management

WISCONSIN-LACROSSE, UNIVERSITY OF, 1975. Simulation model study navigation pool no. 8. Interim Rept, Dec. 63 pp.

Abstract: Written request sent; no response.

Keywords: Models, Navigation, Pool 8

KEYWORD THESAURUS

I. BIOLOGICAL KEYWORDS

I. BIOLOGICAL KEYWORDS

ABUNDANCE

Individual Authors

Eckblad et al. 1976

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

AGE AND GROWTH

Individual Authors

Ammerman 1975
Eckblad et al. 1976
Eddy & Carlander 1942
Hall et al. 1975
Jergens & Childers 1959
Thiel 1977

Agencies

Ia. Cons. Comm. 1960

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

AMPHIBIANS

Individual Authors

Bruton 1971

Agencies

U.S. Dept. Int. 1970

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

AQUATIC PLANTS

Individual Authors

Green 1947
Moyle 1961
Swanson & Sohmer 1977
Tiffany 1921

I. BIOLOGICAL KEYWORDS

BACTERIA

Individual Authors

Grimes 1976

Agencies

Minn. Dept. Health 1933

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

BENTHOS

Individual Authors

Eckblad 1974
Eckblad et al. 1976
Elstad 1977
Finke 1966
Heuschele 1968
McConville 1972
Reis & Wheatley 1978
Simpson 1914

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

BIBLIOGRAPHY

Individual Authors

Gregory 1918
McDonald 1977a

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

BIRDS

Individual Authors

Dodge et al. 1972
Moyle 1940

Agencies

U.S. Dept. Commerce 1973

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

CLAMS

Individual Authors

Havlik 1977a
Havlik 1977b
Havlik 1977c
Holzinger 1887
Marking & Bills 1977
Mathiak 1978
Pahl 1969

I. BIOLOGICAL KEYWORDS

COMMERCIAL FISHING

Individual Authors

Kernan 1951
Kernan 1952a
Kernan 1952b
Verdon 1974

Agencies

Minn. Dept. Nat. Res. 1973
U.S. Army Corps. Eng. Undated
U.S. Comm. Fish. 1894
U.S. Comm. Fish. 1910
U.S. Comm. Fish. 1912
U.S. Comm. Fish. 1916
U.S. Fish & Wildl. Serv. 1952
Upper Miss. Riv. Cons. Comm. 1948
Upper Miss. Riv. Cons. Comm. 1950a
Upper Miss. Riv. Cons. Comm. 1950b
Wis. Dept. Nat. Res. 1891-1947

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

CREEL CENSUS

Individual Authors

Cleary 1958
DeCook & Cleary 1960
Greenbank 1957
Line & McDonald 1973
Sternberg 1974

Agencies

Ill. Dept. Cons. 1962
Ill. Dept. Cons. 1973a
Ia. Cons. Comm. 1960
Miss. Riv. Work Unit 1976
Miss. Riv. Work Unit 1977
Miss. Riv. Work Unit 1978

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

DISTRIBUTION

Individual Authors

Cleary 1958
Green 1947
Gudmundson et al. 1974
Havlik 1978b
Havlik 1979a
Havlik & Stansbery 1977
Jordan & Brown 1967
Lopinot & Smith 1973

Agencies

Miss. Fly. Coun. 1958

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

DIVING DUCKS

Individual Authors

Nicklaus & Merz 1976

Thompson & Gale (Undated)

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

. DUCKS

Individual Authors

Geis 1971
Geis & Carney 1961
Kyre 1966
Thompson & Jedlicka 1948
Thompson & Gale (Undated)

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

ECOLOGY

Individual Authors

Barnickol 1958
Eckblad 1974
Eckblad 1978
Green 1960
Gudmundson et al. 1974
Hart & Fuller 1974
Lewis 1977
Miller et al. 1973
Niemuth et al. 1962

Agencies

U.S. Congress, Senate. 1948
Wis. Dept. Nat. Res. 1971

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

ENDANGERED SPECIES

Individual Authors

Havlik 1978a
Havlik & Stansbery 1977
Lopinot & Smith 1973

Agencies

Ill. Dept. Cons. 1973b

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

FISH

Individual Authors

Ammerman 1975
 Bailey, R.M. 1951
 Bailey, R.M. 1956
 Bailey, R.M. & Speaker 1946
 Barney 1924
 Bertrand 1974
 Bertrand 1976
 Bertrand & Dunn 1973
 Brehmer 1953
 Cleary 1958
 Cleary & Pierce 1960
 Coker 1923
 Cox 1897
 Daley 1961
 Eddy & Carlander 1942
 Eddy et al. 1963
 Ellis 1931
 Fry 1962
 Gibbs 1869
 Greenband 1950
 Hanson 1956
 Harlan & Speaker 1969
 Hubley 1960
 Jergens & Childers 1959
 Jordan & Evermann 1908
 Kline & McDonald 1973
 Kudo 1929
 Lopinot & Smith 1973
 McDonald 1977a
 McDonald 1977b
 Moyle 1940
 Moyle & Skrypek 1969
 Moyle & Skrypek 1972
 Niemuth et al. 1962
 Nord 1958
 Owen 1952
 Potter & Jones 1928
 Shatford 1978
 Shodeen 1965
 Sternberg 1970
 Tiffany 1921
 Verdon 1974

Agencies

Fish. Comm. Ill. 1884-1908
 Ill. Dept. Cons. 1942
 Ill. Dept. Cons. 1973a
 Ia. Cons. Comm. 1960
 Ia. St. Hyg. Lab. 1970
 Ia. St. Hyg. Lab. 1971a
 Minn. Dept. Cons. 1964
 Miss. Riv. Work Unit 1976
 Miss. Riv. Work Unit 1977
 Miss. Riv. work Unit 1978
 Mo. Fish Comm. 1879-1931
 NOAA 1974
 U.S. Comm. Fish. 1994
 U.S. Comm. Fish. 1910
 U.S. Comm. Fish. 1912
 U.S. Comm. Fish. 1916
 U.S. Dept. Int. 1913
 U.S. Dept. Int. 1973a
 U.S. Fish & Wildl. Serv. 1945
 U.S. Fish & Wildl. Serv. 1963
 U.S. Pub. Health Serv. 1963
 Upper Miss. Riv. Cong.
 Basin Study 1970
 Upper Miss. Riv. Cons. Comm.
 1948
 Upper Miss. Riv. Cons. Comm.
 1950a
 Upper Miss. Riv. Cons. Comm.
 1950b
 Upper Miss. Riv. Cons. Comm.
 1957
 Upper Miss. Riv. Cons. Comm.
 1967

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

FISHING

Individual Authors

Carlander & Carlander 1951
Hanson 1956
Harlan & Speaker 1969
Kernan 1951
Molamphy 1960
Molamphy & Cleary 1959
Pearse 1922
Replinger 1974
Surber 1913
Woods 1951

Agencies

Ill. Dept. Cons. 1964
Ill. Dept. Cons. 1972

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

FOOD HABITS

Individual Authors

Bailey, V. 1930
Cochran 1977
Limpert & Vose 1976
Thiel 1977
Thompson & Gale (Undated)
Uhler (circa 1929)

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

GAME

Agencies

Minn. Dept. Cons. 1964

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

GEESE

Individual Authors

Thompson & Jedlicka 1948

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

GIZZARD SHAD

Individual Authors

Tiffany 1921

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

HABITAT

Individual Authors

Bertrand & Dunn 1973
Meyer 1975
Meyer et al. 1977
Shatford 1978
Shodeen 1965
Sternberg 1967

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

HABITAT MANAGEMENT

Individual Authors

Shatford 1978

Agencies

Ill. Dept. Cons. 1958b

U.S. Congress, Senate 1948

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

HUNTING

Individual Authors

Green 1963

Kyre 1966

Thompson & Jedlicka 1948

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

IDENTIFICATION

Individual Authors

Baily, R.M. 1951
Bailey, R.M. 1951
Hanson 1956
Harlan & Speaker 1969
Jordan & Evermann 1908

I. BIOLOGICAL KEYWORDS

INVERTEBRATES

Individual Authors

Carlson et al. 1959
Dahlquist 1970
Hart & Fuller 1974
McConville 1972
Moore 1912
Moyle 1961
Simpson 1914

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

LENGTH - WEIGHT

Individual Authors

Cochran 1977
Greenbank 1950

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

LIFE HISTORY

Individual Authors

Eddy et al. 1963
Hall et al. 1975
Mathiak 1978
Niemuth et al. 1962

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

LIMNOLOGY

Individual Authors

Eckblad 1978
Marmer et al. 1976
Mehta 1969
Smith, P.W. 1973
Sparks 1977

Agencies

Minn. Dept. Cons. 1959
Minn. Dept. Health 1940
U.S. Army Corps Eng. 1972b
U.S. Dept. Commerce 1973

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MACROPHYTES

Individual Authors

Green 1947

Swanson & Sohmer 1977

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MALLARD

Individual Authors

Geis 1971

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MAMMALS

Agencies

U.S. Dept. Int. 1968

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MANAGEMENT

Individual Authors

Claflin 1977b
Decker 1970
Feagin 1966
Keenlyne 1974
Niemuth et al. 1962

Agencies

Minn. Hist. Soc. 1866-1884
Mo. Dept. Cons. 1977
Wis. Dept. Nat. Res. 1971

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MAYFLIES

Individual Authors

Carlson et al. 1959
Hall et al. 1975
Hall et al. (In press) .

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MIGRATION

Individual Authors

Eddy et al. 1963
Shatford 1978

Agencies

Miss. Fly. Coun. 1958

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MINNOWS

Individual Authors

Thiel 1977

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MOLLUSKS

Individual Authors

Havlik 1977b
Havlik 1977c
Havlik 1978a
Havlik 1978b
Havlik 1979a
Havlik 1979b
Havlik & Stansbery 1977
Holzinger 1887
Larson 1961

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MORTALITY

Agencies

Minn. Dept. Cons. 1963
U.S. Pub. Health Serv. 1963

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

MUSSELS

Individual Authors

Bailey, R.M. & Speaker 1946
Eckblad et al. 1976
Finke 1966
Havlik 1977a
Havlik 1977b
Havlik 1977c
Heard 1968
Larsen & Holzer 1978
Marking & Bills 1977
Simpson 1914

Agencies

U.S. Dept. Int. 1913

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PADDLEFISH

Individual Authors

Coker 1923

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PARASITES

Individual Authors

Carlson et al. 1959
Hubley 1960
Kudo 1929
Larson 1961

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PERIPHYTON

Individual Authors

Brook 1971

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PHYTOPLANKTON

Individual Authors

Kuhl (Undated)
Strenski (Undated)

Agencies

Minn. Dept. Health 1947
Minn. Dept. Health 1948a

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PLANKTON

Individual Authors

Moyle 1940

Agencies

U.S. Army Corps. Eng. 1972b

U.S. Dept. Commerce 1973

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

POPULATION

Individual Authors

Eckblad 1978
McConville 1972

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PRIMARY PRODUCTION

Individual Authors

Kuhl (Undated)

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

PRODUCTION

Individual Authors

Hall et al. (In press)
Reis & Wheatley 1978

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

RARE SPECIES

Individual Authors

Lopinot & Smith 1973

Agencies

Ill. Dept. Cons. 1973b

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

RECOLONIZATION

Individual Authors

Dahlquist 1970

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

REPRODUCTION

Individual Authors

Dahlquist 1970

Daley 1961

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

REPTILES

Individual Authors

Cochran 1977

Agencies

U.S. Dept. Int. 1970

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

RESEARCH

Individual Authors

Dahlquist 1970

Thimsen & Samuelson 1949

Agencies

Nat. Wat. Qual. Lab. Undated-b

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SAUGER

Individual Authors

Daley 1961

Agencies

Anonymous 1960

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SHELLS

Individual Authors

Pahl 1969

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SNAILS

Individual Authors

Carson 1961

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SPECIES LIST

Agencies

U.S. Dept. Int. 1970

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SPORT FISHING

Individual Authors

Bailey, R.M. & Speaker 1946
DeCook & Cleary 1960
Holzer & Ironside 1977
King et al. 1961
Klant & Vidal 1958
Molamphy & Cleary 1959
Sternberg 1974
Von Shriltz 1950

Agencies

Ill. Dept. Cons. 1942
Ill. Dept. Cons. 1962
Ill. Dept. Cons. 1964
Ill. Dept. Cons. 1972
Ill. Dept. Cons. 1973a

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

STANDING CROP

Individual Authors

Hall et al. (In press)

I. BIOLOGICAL KEYWORDS

STRIPED BASS

Individual Authors

Skrypek & Sternberg 1978
Sternberg 1970

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL - KEYWORDS

SUCCESSION

Individual Authors

Barclay 1924

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

SURVEY

Individual Authors

Claflin 1973	Minn. Dept. Health 1928
Degenhardt (no date)	Minn. Dept. Health 1933
Dodge et al. 1972	Minn. Dept. Health 1940
Ellis 1931	Minn. Dept. Health 1947
Finke 1966	Minn. Dept. Health 1948a
Geis & Carney 1961	Minn. Dept. Health 1948b
Green 1963	Minn. Dept. Health 1963
Gudmundson et al. 1974	Minn. Dept. Nat. Res. (Undated)
Havlik 1979b	Minn. Hist. Soc. 1866-1884
Heuschele 1968	Minn. Out. Rec. Res. Comm. 1964
Jergens & Childers 1959	Minn. Poll. Cont. Agen. 1968a
Jordan & Brown 1967	Minn. Poll. Cont. Agen. 1969
Klant & Vidal 1958	Minn. Poll. Cont. Agen. 1970
Kline & McDonald 1973	Minn. Poll. Cont. Agen. 1972b
Kyre 1966	Mo. Bot. Gar. 1975
Larsen & Holzer 1978	Mo. Fish Comm. 1879-1931
Moyle 1940	NOAA 1974
Nord 1958	No. St. Power Co. 1968-1969
Owen 1952	Sed. Lab. 1978
Shodeen 1965	U.S. Army Corps. Eng. 1970
Skrypek 1966	U.S. Army Corps. Eng. 1972a
Sternberg 1967	U.S. Army Corps. Eng. 1972b
Surber 1913	U.S. Army Corps. Eng. 1976b
Tatinclaux 1974	U.S. Army Corps. Eng. 1976d

Agencies

Anonymous 1960	U.S. Comm. Fish. 1894
Anonymous 1965	U.S. Comm. Fish. 1910
Com. Ed. Co. 1974	U.S. Comm. Fish. 1912
Fed. Wat. Poll. Cont. Adm. 1966	U.S. Comm. Fish. 1916
Fed. Wat. Poll. Cont. Adm. 1969	U.S. Congress, House, Commerce Comm. 1967a
Ill. Dept. Cons. 1958a	U.S. Congress, House, Commerce Comm. 1967b
Ill. Dept. Cons. 1958b	U.S. Congress, House, Riv. Harb. Comm. 1926
Ill. Dept. Cons. 1973a	U.S. Dept. Int. 1968
Ia. Cons. Comm. 1960	U.S. Dept. Int. 1973b
Ia. St. Hyg. Lab. 1969a	U.S. Dept. Int. 1977
Ia. St. Hyg. Lab. 1969b	U.S. Pub. Health Serv. (Undated)
Ia. St. Hyg. Lab. 1969c	Upper Miss. Riv. Comp. Basin Study 1970
Ia. St. Hyg. Lab. 1969d	Upper Miss. Riv. Cons. Comm. 1950a
Metro. Coun. 1975	Upper Miss. Riv. Cons. Comm. 1950b
Metro. Plan. Comm. 1960	
Minn. Dept. Cons. 1959	
Minn. Dept. Cons. 1964	

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

TAXONOMY

Individual Authors

Bailey, R.M. 1951
Bailey, R.M. 1956
Moore 1912

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

TURTLES

Individual Authors

Cochran 1977

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

VEGETATION

Individual Authors

Bailey, V. 1930
Barclay 1924
Meyer 1975
Moyle 1940
Olson & Meyer 1976a
Olson & Meyer 1976b
Smith, S.G. 1969
Swanson & Sohmer 1977
Tiffany 1921

Agencies

Mo. Bot. Gar. 1975
U.S. Army Corps Eng. 1964
Wis. Dept. Nat. Res. 1971

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

WALLEYE

Individual Authors

Daley 1961
Niemuth et al. 1962

Agencies

Anonymous 1960

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

WATERFOWL

Individual Authors

Connett 1949
Geis 1971
Green 1963
Limpert & Vose 1976
Moyle 1961
Shatford 1978
Thompson & Jedlicka 1948
Thompson & Gale (undated)
Uhler (circa 1929)

Agencies

Minn. Dept. Cons. 1963
Miss. Fly. Coun. 1958

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

WHISTLING SWAN

Individual Authors

Limpert & Vose 1976

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

WILDLIFE

Individual Authors

Hornaday 1931
Shatford 1978
Wilson 1950

Agencies

Miss. Riv. Work Unit 1976
Miss. Riv. Work Unit 1977
Miss. Riv. Work Unit 1978
Mo. Dept. Cons. 1973
Mo. Dept. Cons. 1977
U.S. Congress, House. Comm. Int. Ins. Aff. 1972
U.S. Congress, Senate. 1948
U.S. Dept. Commerce 1973
U.S. Dept. Int. 1973a
U.S. Fish & Wildl. Serv. 1963

HAZLETON ENVIRONMENTAL SCIENCES

I. BIOLOGICAL KEYWORDS

WINTERING

Individual Authors

Geis 1971

II. PHYSICAL-CHEMICAL KEYWORDS

II. PHYSICAL - CHEMICAL KEYWORDS

AGRICULTURE

Individual Authors

Bates 1932

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

BACKWATER

Individual Authors

Reis & Wheatley 1978
Sternberg 1967

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

BARGES

Individual Authors

Hoffner 1932

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CHANNELIZATION

Individual Authors

Green 1960
Robinson 1972

Agencies

Metro. Coun. 1969
U.S. Army Corps. Eng. 1938
U.S. Army Corps. Eng. 1971
U.S. Army Corps. Eng. 1972a
U.S. Army Corps. Eng. 1976b
U.S. Congress, House. 1971
U.S. Congress, House. Riv. Harb. Comm. 1932a

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CHANNEL MAINTENANCE

Individual Authors

Littlejohn 1972

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CHEMISTRY

Individual Authors

Larsen 1977

Agencies

U.S.E.P.A. 1971

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CHLORINATED HYDROCARBONS

Individual Authors

Moyle & Skrypek 1972

Agencies

Minn. Poll. Cont. Agen. 1972b

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CLIMATOLOGY

Individual Authors

Bolsenga 1968
Nicollet 1965

Agencies

Upper Miss. Riv. Comp. Basin Study 1970

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

CLOSING STRUCTURE

Individual Authors

Turner 1969

AD-A080 948 HAZLETON ENVIRONMENTAL SCIENCES CORP NORTHBROOK IL F/G 6/3
GREAT II. FISH AND WILDLIFE MANAGEMENT WORK GROUP ANNOTATED BIB--ETC(U)
JUN 79 DACW25-78-C-0002
UNCLASSIFIED ES-5501-08904-ADD NL

AD-A080 948 HAZLETON ENVIRONMENTAL SCIENCES CORP NORTHBROOK IL F/G 6/3
GREAT II. FISH AND WILDLIFE MANAGEMENT WORK GROUP ANNOTATED BIB--ETC(U)
JUN 79 DACW25-78-C-0002
UNCLASSIFIED ES-5501-08904-ADD NL

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GREAT II. FISH AND WILDLIFE MANAGEMENT WORK GROUP ANNOTATED BIB--ETC(U)
JUN 79 DACW25-78-C-0002
UNCLASSIFIED ES-5501-08904-ADD NL

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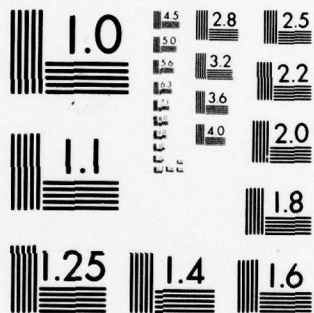
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

COMMERCIAL BOAT TRAFFIC

Individual Authors

Appleton 1930
Baron et al. 1972
Fisk 1947
Hill 1961
Hoffner 1932
Karaki & Van Hoften 1974

Agencies

U.S. Army Corps Eng. 1970

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

DAM

Individual Authors

Skyrpek 1966

Turner 1969

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

DEVELOPMENT

Agencies

U.S. Congress, House. Riv. Harb. Comm. 1930
U.S. Congress, House. Riv. Harb. Comm. 1932b

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

DIKE

Individual Authors

Burwell 1964

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

DISCHARGE

Individual Authors

Gudmundson et al. 1974
Tatinclaux 1974

Agencies

Minn. Poll. Cont. Agen. 1972a

II. PHYSICAL - CHEMICAL KEYWORDS

DREDGING

Individual Authors

Grimes 1976
Held 1975
Maltby 1905
Marking & Bills 1977
Ockerson 1898
Olson & Meyer 1976a
Shodeen 1965
Simons 1973
Smith, A.B. 1963

Agencies

U.S. Army Corps Eng. 1971
U.S. Fish & Wildl. Serv. 1963

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

EFFLUENT

Individual Authors

Gudmundson et al. 1974

II. PHYSICAL - CHEMICAL KEYWORDS

FLOOD

Individual Authors

Bates 1932

Yeager 1949

Agencies

U.S. Dept. Commerce 1973

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

FLOODING

Individual Authors

Zon 1929

Agencies

Anonymous 1965

Miss. Wat. Res. Conf. 1970

U.S. Congress, House 1971

U.S. Congress, House. Riv. Harb. Comm. 1926

U.S. Dept. Agr. 1924

U.S. Geol. Surv. (Undated)

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

FLOW

Individual Authors

Anderson, G.E. 1976

Agencies

Ia. St. Hyg. Lab. 1969a

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

GEOLOGY

Individual Authors

Simons 976
Winter & Norwitch 1972

Agencies

Metro. Coun. 1969
Sed. Lab. 1978
Upper Miss. Riv. Comp. Basin Study 1970

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

HABITAT ALTERATION

Individual Authors

Gudmundson et al. 1974
Lewis 1977

Agencies

Mo. Dept. Cons. 1973
U.S. Army Corps Eng. (Undated)
U.S. Army Corps Eng. 1976b
U. S. Dept. Commerce 1973

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

HISTORY

Individual Authors

Carlander & Carlander 1951
Decker 1970
Keating 1971
Nicollet 1965
Petersen 1968a
Petersen 1968b
Petersen 1968c
Richman 1911
Russell 1928
Turner 1969
Young 1971

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

HYDRAULICS

Individual Authors

Anding 1966
Humphreys & Abbot 1876
Kennedy 1977
Maltby 1905

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

HYDROLOGY

Individual Authors

Anderson, G.E. 1976
Anderson, H.W. et al. 1975
Bates 1931
Carlson 1967
Jordan & Brown 1967
Kennedy 1977
Nicollet 1965
Oakes (Undated)
Olson & Meyer 1976b
Sayre & Parr 1972
Smyser 1947
Tatinclaux 1974
Walton 1968
Winter & Norwitch 1972

Agencies

U.S. Army Corps Eng. (Undated)
U.S. Congress, House. Commerce Comm. 1856
U.S. Congress, House. Pub. Works Comm. 1949
U.S. Fish & Wildl. Serv. 1975
U.S. Geol. Surv. 1965
U.S. Geol. Surv. 1973
Upper Miss. Riv. Comp. Basin Study 1970

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

ICE

Individual Authors

Bolsenga 1968
Krosch 1969
Molamphy 1960

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

IMPOUNDMENT

Individual Authors

Bates 1931

Fry 1962

Norwitch et al. 1973

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

LEVEES

Individual Authors

Sparks 1977

Agencies

U.S. Congress, House, Lev. Imp. Comm. 1878

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

MINING

Individual Authors

Barnickol 1958

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

MODELS

Agencies

Wis. U. of 1975

II. PHYSICAL - CHEMICAL KEYWORDS

NAVIGATION

Individual Authors

Bates 1932

Agencies

Minn. Hist. Soc. 1866-1884
U.S. Army Corps Eng. 1938
U.S. Army Corps Eng. 1940a
U.S. Army Corps Eng. 1941
U.S. Army Corps Eng. 1947
U.S. Army Corps Eng. 1965-1967
U.S. Army Corps Eng. 1970
U.S. Army Corps Eng. 1976b
U.S. Congress, House. Commerce Comm. 1856
U.S. Congress, House. Lev. Imp. Comm. 1878
U.S. Congress, House. Riv. Harb. Comm. 1904
U.S. Congress, House. Riv. Harb. Comm. 1919a
U.S. Congress, House. Riv. Harb. Comm. 1919b
U.S. Congress, House. Riv. Harb. Comm. 1926
U.S. Congress, House. Riv. Harb. Comm. 1932a
U.S. Congress, House. Riv. Harb. Comm. 1932b
Upper Miss. Riv. Comp. Basin Study 1970
Wis, U. of 1975

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

NINE-FOOT CHANNEL

Agenices

U.S. Congress, House. Riv. Harb. Comm. 1932a

II. PHYSICAL - CHEMICAL KEYWORDS

NUCLEAR POWER

Individual Authors

Bentley 1973
Brook 1971
Hoffman 1971
Kennedy 1976
Lewis 1977
Marmer et al. 1976
McDonald 1977b
McDonald et al. 1972

Agencies

Anonymous 1971
Com. Ed. Co. 1973
Com. Ed. Co. 1974
Ia. St. Hyg. Lab. 1971b
U.S. Dept. Commerce 1973
U.S. Dept. Int. 1973a

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

PESTICIDES

Individual Authors

Hora 1976
Mehta 1969
Moyle & Skrypek 1969

Agencies

Ia. St. Hyg. Lab. 1970
Ia. St. Hyg. Lab. 1971a

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

PETROLEUM

Individual Authors

Tadema 1971

Agencies

U.S. Dept. H.E.W. 1963

II. PHYSICAL - CHEMICAL KEYWORDS

POLLUTION

Individual Authors

Barnickol 1958
 Bentley 1973
 Drake & Wilson 1948
 Grimes 1976
 Hart & Fuller 1974
 Heard 1968
 Hora 1976
 Johnson 1967
 Kennedy 1976
 Maher 1965
 Mattei 1970
 Rogers et al. 1940
 Tadema 1971
 Woodward 1930

Agencies

Anonymous 1971
 Fed. Wat. Poll. Cont. Adm. 1965
 Fed. Wat. Poll. Cont. Adm. 1966
 Fed. Wat. Poll. Cont. Adm. 1967
 Fed. Wat. Qual. Adm. 1964
 Metro. Drain. Comm. 1928
 Minn.-St. Paul San. Dist. & UM. 1961
 Minn. Dept. Cons. 1963
 Minn. Dept. Health 1928
 Minn. Dept. Health 1953
 Minn. Mun. 1964
 Minn. St. Bd. Health 1928
 Minn. Wat. Poll. Cont. Comm. 1963
 Minn. Wat. Poll. Cont. Comm. 1964
 Miss. Wat. Res. Conf. 1970
 No. St. Power Co. 1967
 U.S. Dept. H.E.W. 1953
 U.S. Dept. H.E.W. 1955
 U.S. Dept. H.E.W. 1962
 U.S. Dept. H.E.W. 1963
 U.S. Dept. Int. 1973a
 U.S. Pub. Health Serv. 1963

II. PHYSICAL - CHEMICAL KEYWORDS

POLYCHLORINATED HYDROCARBONS

Individual Authors

Duncan & Esse 1978

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

POWER

Agencies

No. St. Power Co. 1968-1969

U.S. Congress, House. Riv. Harb. Comm 1926

U.S. Dept. Int. 1913

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

RECREATION

Individual Authors

Baron et al. 1972
Chambers 1910
Hella 1960
Replinger 1974
Russell 1928
Young 1971

Agencies

Ia. Cons. Comm. 1971
Minn. Out. Rec. Res. Comm. 1964
Upper Miss. Riv. Comp. Basin Study 1970

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

RECREATIONAL BOAT TRAFFIC

Individual Authors

Dunham 1970
Hoffner 1932
Karaki & Van Hoften 1974

Agencies

U.S. Congress, House. Comm. Int. Ins. Aff. 1972

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

REGULATIONS

Individual Authors

Potter 1925

Agencies

U.S. Army Corps Eng. 1965-67

Upper Miss. Val. Wat. Use Coun. 1945

II. PHYSICAL - CHEMICAL KEYWORDS

REMOTE SENSING

Individual Authors

Degenhardt (no date)
Meyer 1975

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

RESERVOIR

Agencies

Ill. Dept. Cons. 1972

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

RIVER BOTTOM

Individual Authors

Yeager 1949

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

RIVER LAKE

Individual Authors

Heuschele 1968

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

SEDIMENT

Individual Authors

Grimes 1976
Gross 1973
Karaki & Van Hoften 1974
Lane 1938
Mack 1970
Tuttle 1970

Agencies

Minn. Dept. Health 1940

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

SEDIMENTATION

Individual Authors

Eckblad 1974
Fisk 1947
Marking & Bills 1977
McHenry et al. 1977
Ritchie & McHenry 1977
Smith, A.B. 1963
Toffaletti 1970

Agencies

U.S. Army Corps Eng. 1935b

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

SIDE CHANNEL

Individual Authors

Fremling & McConville 1976
Sternberg 1967

II. PHYSICAL - CHEMICAL KEYWORDS

SILTATION

Individual Authors

Green 1964

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

SLOUGH

Individual Authors

Burwell 1964
Sternberg 1967

Agencies

Ia. St. Hyg. Lab. 1970
Ia. St. Hyg. Lab. 1971b

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

TAILWATER

Individual Authors

Fry 1962

II. PHYSICAL - CHEMICAL KEYWORDS

TEMPERATURE

Individual Authors

Krosch 1969

Sayre & Parr 1972

II. PHYSICAL - CHEMICAL KEYWORDS

THERMAL EFFLUENT

Individual Authors

Hoffman 1971
Kennedy 1977
McDonald 1977b
McDonald et al. 1972
Sayre & Parr 1972
Tatinclaux 1974

Agencies

Anonymous 1971
U.S. Army Corps Eng. 1972b
U.S. Dept. Int. 1973a

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

TOXICANT

Individual Authors

Bentley 1973
Moyle & Skrypek 1969
Moyle & Skrypek 1972

Agencies

U.S. Pub. Health Serv. 1963

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

URBANIZATION

Individual Authors

Johannes 1960
Johnson 1967

Agencies

Minn.-St. Paul San. Dist. 1964

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

WATER DIVERSION

Individual Authors

Norwitch et al. 1973

HAZLETON ENVIRONMENTAL SCIENCES

II. PHYSICAL - CHEMICAL KEYWORDS

WATER QUALITY

Individual Authors

Eckblad 1975
Ellis 1931
Felt 1977
Grimes 1976
Heard 1968
Johnson 1967
Kennedy 1976
Mehta 1969
Wu 1968

Agencies

Anonymous 1971
Com. Ed. Co. 1973
Com. Ed. Co. 1974
Fed. Wat. Poll. Cont. Adm. 1965
Fed. Wat. Poll. Cont. Adm. 1966
Fed. Wat. Poll. Cont. Adm. 1967
Fed. Wat. Poll. Cont. Adm. 1969
Fed. Wat. Qual. Adm. 1964
Fed. Wat. Qual. Adm. 1965
Fed. Wat. Qual. Adm. 1969
Ia. St. Hyg. Lab. 1969a
Ia. St. Hyg. Lab. 1969b
Ia. St. Hyg. Lab. 1969c
Ia. St. Hyg. Lab. 1969d
Ia. Wat. Poll. Cont. Comm. 1966
Ia. Wat. Poll. Cont. Comm. 1967
Ia. Wat. Poll. Cont. Comm. 1968
Ia. Wat. Poll. Cont. Comm. 1969
Metro. Drain. Comm. 1928
Metro. Plan. Comm. 1960
Minn.-St. Paul San. Dist. 1964
Minn.-St. Paul San. Dist. & UM. 1961
Minn. Dept. Health 1928
Minn. Dept. Health 1933
Minn. Dept. Health 1953
Minn. Dept. Health 1958
Minn. Dept. Health 1960
Minn. Dept. Health 1963
Minn. Mun. 1964

II. PHYSICAL - CHEMICAL KEYWORDS

WATER QUALITY

Agencies (continued)

Minn. Poll. Cont. Agen. 1968a
 Minn. Poll. Cont. Agen. 1968b
 Minn. Poll. Cont. Agen. 1969
 Minn. Poll. Cont. Agen. 1970
 Minn. Poll. Cont. Agen. 1972a
 Minn. Poll. Cont. Agen. 1972b
 Minn. Poll. Cont. Agen. 1973
 Minn. St. Bd. Health 1928
 Minn. Wat. Poll. Cont. Comm. 1963
 Minn. Wat. Poll. Cont. Comm. 1964
 Minn. Wat. Poll. Cont. Comm. 1967
 Miss. Wat. Res. Conf. 1969
 Miss. Wat. Res. Conf. 1970
 Nat. Wat. Qual. Lab. (Undated-a)
 Nat. Wat. Qual. Lab. (Undated-b)
 No. St. Power Co. 1967
 S.D. Fed. Power Comm. 1964
 U.S. Army Corps Eng. 1964
 U.S. Dept. H.E.W. 1953
 U.S. Dept. H.E.W. 1955
 U.S. Dept. H.E.W. 1962
 U.S. Dept. H.E.W. 1963
 U.S. Dept. Int. 1973a
 U.S.E.P.A. 1971
 U.S.E.P.A. 1973
 U.S.E.P.A. 1974
 U.S. Geol. Surv. 1973
 U.S. Pub. Health Serv. (Undated)

III. GEOGRAPHICAL KEYWORDS

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

CHIPPEWA RIVER

Agencies

U.S. Fish & Wildl. Serv. 1975

III. GEOGRAPHICAL KEYWORDS

ILLINOIS

Individual Authors

Brehmer 1953
Dunham 1970
Jergens & Childers 1959
Klant & Vidal 1958
Kudo 1929
Lopinot & Smith 1973
Smith, P.W. 1973
Yeager 1949

Agencies

Bd. Eng. Riv. Harb. 1976
Ill. Dept. Cons. 1942
Ill. Dept. Cons. 1964
Ill. Dept. Cons. 1973a
Ill. Dept. Cons. 1973b
Ia. St. Hyg. Lab. 1971b
U.S. Army Corps Eng. 1976c
U.S. Army Corps Eng. 1976d
U.S. Dept. Int. 1973b

III. GEOGRAPHICAL KEYWORDS

ILLINOIS RIVER

Individual Authors

Karaki & Van Hoften 1974

Agencies

U.S. Army Corps Eng. 1975

III. GEOGRAPHICAL KEYWORDS

IOWA

Individual Authors

Bailey, R.M. 1951
 Bailey, R.M. 1956
 Cleary & Pierce 1960
 Eckblad 1975
 Hanson 1956
 Harlan & Speaker 1969
 Jergens & Childers 1959
 Kennedy 1976
 Kernan 1951
 Kernan 1952a
 Kernan 1952b
 Mehta 1969
 Molamphy 1960
 Petersen 1968a
 Potter & Jones 1928
 Richman 1911
 Surber 1913
 Tatinclaux 1974
 Woods 1951

Agencies

Fed. Wat. Poll. Cont. Adm. 1967
 Fed. Wat. Poll. Cont. Adm. 1969
 Fed. Wat. Qual. Adm. 1969
 Ia. Cons. Comm. 1960
 Ia. Cons. Comm. 1971
 Ia. St. Hyg. Lab. 1969a
 Ia. St. Hyg. Lab. 1969b
 Ia. St. Hyg. Lab. 1969c
 Ia. St. Hyg. Lab. 1969d
 Ia. St. Hyg. Lab. 1971a
 Ia. St. Hyg. Lab. 1971b
 Ia. Wat. Poll. Cont. Comm. 1966
 Ia. Wat. Poll. Cont. Comm. 1967
 Ia. Wat. Poll. Cont. Comm. 1968
 Ia. Wat. Poll. Cont. Comm. 1969
 U.S. Army Corps Eng. (Undated)
 U.S. Congress, House 1971
 U.S. Dept. Int. 1973b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

IOWA RIVER

Individual Authors

Mehta 1969

III. GEOGRAPHICAL KEYWORDS

LAKE ONALASKA

Individual Authors

Claflin 1977a
Claflin 1977b
Holzer & Ironside 1977
Larsen 1977

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

LAKE PEPIN

Individual Authors

Finke 1966
Gibbs 1869
McHenry et al. 1977
Skrypek & Sternberg 1978
Sternberg 1970

Agencies

Minn. Dept. Cons. 1964
U.S. Dept. War 1926

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

LOCK AND DAM 2

Agencies

Minn. Dept. Health 1947

LOCK AND DAM 3

Agencies

Minn. Dept. Health 1947

LOCK AND DAM 4

Agencies

Minn. Dept. Health 1947
Minn. Dept. Health 1948a

LOCK AND DAM 5

Agencies

Minn. Dept. Health 1947

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

LOCK AND DAM 6

Agencies

Minn. Dept. Health 1947

LOCK AND DAM 7

Individual Authors

Holzer & Ironside 1977

LOCK AND DAM 13

Agencies

Ia. St. Hyg. Lab. 1971b

LOCK AND DAM 14

Agencies

Ia. St. Hyg. Lab. 1971b

III. GEOGRAPHICAL KEYWORDS

LOCK AND DAM 26

Individual Authors

Anderson, G.E. 1976
Armstrong 1970
Blackwelder & Marlin 1975
Briceland 1976
Decker 1970
Toffaletti 1970

Agencies

Bd. Eng. Riv. Harb. 1976
Ill. Dept. Cons. 1977
Ill. Dept. Transp. 1975
Peat, Marwick, Mitchell, Co. 1975
Sverdrup, Parcel & Assoc. 1976
U.S. Army Corps Eng. 1968
U.S. Army Corps Eng. 1976c
U.S. Army Corps Eng. 1976d

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

MIDDLE MISSISSIPPI RIVER

Agencies

U.S. Army Corps Eng. 1935a
U.S. Army Corps Eng. 1940a
U.S. Army Corps Eng. 1940b
U.S. Army Corps Eng. 1947
U.S. Army Corps Eng. 1948

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

MINNESOTA

Individual Authors

Brook 1971
 Bruton 1971
 Cox 1897
 Dodge et al. 1972
 Drake & Wilson 1948
 Eddy & Carlander 1942
 Hall et al. 1975
 Hall et al. (In press)
 Havlik 1977a
 Holzinger 1887
 Johannes 1960
 Kernan 1951
 Kernan 1952a
 Kernan 1952b
 Krosch 1969
 Kuhl (Undated)
 Larson 1961
 McConville 1972
 Moore 1912
 Moyle & Skrypek 1969
 Moyle & Skrypek 1972
 Oakes (Undated)
 Owen 1952
 Replinger 1974
 Walton 1968
 Winter & Norwitch 1972
 Wu 1968

Agencies

Fed. Wat. Poll. Cont. Adm. 1967
 Fed. Wat. Qual. Adm. 1964
 Fed. Wat. Qual. Adm. 1965
 Fed. Wat. Qual. Adm. 1969
 Metro. Coun. 1969
 Metro. Coun. 1975
 Metro. Drain Comm. 1928
 Metro. Plan. Comm. 1960
 Minn.-St. Paul San. Dist. 1964
 Minn. Dept. Cons. 1959
 Minn. Dept. Cons. 1963
 Minn. Dept. Cons. 1964
 Minn. Dept. Health 1940
 Minn. Dept. Health 1947
 Minn. Dept. Health 1948a

Agencies cont.

Minn. Dept. Health 1953
 Minn. Dept. Health 1960
 Minn. Dept. Health 1963
 Minn. Dept. Nat. Res.
 (Undated)
 Minn. Dept. Nat. Res.
 1973
 Minn. Out. Rec. Res.
 Comm. 1964
 Minn. Mun. 1964
 Minn. Poll. Cont. Agen.
 1968a
 Minn. Poll. Cont. Agen.
 1968b
 Minn. Poll. Cont. Agen.
 1968c
 Minn. Poll. Cont. Agen.
 1969
 Minn. Poll. Cont. Agen.
 1970
 Minn. Poll. Cont. Agen.
 1972a
 Minn. Poll. Cont. Agen.
 1972b
 Minn. Poll. Cont. Agen.
 1973
 Minn St. Bd. Health 1928
 Minn. Wat. Poll. Cont.
 Comm. 1963
 Minn. Wat. Poll. Cont.
 Comm. 1964
 Minn. Wat. Poll. Cont.
 Comm. 1967
 Nat. Wat. Qual. Lab.
 (Undated-a)
 Nat. Wat. Qual. Lab.
 (Undated-b)
 No. St. Power Co. 1967
 No. St. Power co. 1968-
 1969
 S.D. Fed. Power Comm.
 1964
 U.S. Army Corps Eng.
 (Undated)
 U.S. Army Corps Eng. 1938

III. GEOGRAPHICAL KEYWORDS

MINNESOTA (continued)

Agencies

U.S. Congress, House 1957

U.S. Congress, House 1971

U.S. Dept. Int. 1973b

U.S. Dept. War. 1926

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

MINNESOTA RIVER

Agencies

Minn. Dept. Cons. 1963
Minn. Poll. Cont. Agen. 1968b

III. GEOGRAPHICAL KEYWORDS

MISSISSIPPI RIVER WATERFOWL AREA

Individual Authors

Geis & Carney 1961

III. GEOGRAPHICAL KEYWORDS

MISSOURI

Individual Authors

Fry 1962
Mattei 1970

Agencies

Mo. Dept. Cons. 1973
Mo. Dept. Cons. 1977
Mo. Fish Comm. 1879-1931

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

MISSOURI RIVER

Individual Authors

Bentley 1973

Young 1971

Agencies

U.S. Army Corps Eng. (Undated)

U.S. Army Corps Eng. 1976a

U.S. Army Corps Eng. 1976c

U.S. Congress, House 1971

U.S. Congress, House. Riv. Harb. Comm. 1919b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

OHIO RIVER

Agencies

U.S. Army Corps Eng. 1976a

U.S. Congress, House. Riv. Harb. Comm. 1919b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 2

Individual Authors

Felt 1977

POOL 4

Individual Authors

Larsen & Holzer 1978
Simons et al. 1976
Skrypek 1966
Sternberg 1974

Agencies

Ill. Dept. Cons. 1962

POOL 3

Individual Authors

Larsen & Holzer 1978
Miller et al. 1973

POOL 4A

Individual Authors

Finke 1966

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 5

Individual Authors

Cochran 1977
Finke 1966
Larsen & Holzer 1978
Olson & Meyer 1976a
Skrypek 1966
Sternberg 1974

Agencies

Ill. Dept. Cons. 1962

POOL 5A

Individual Authors

Cochran 1977
Olson & Meyer 1976a
Skrypek 1966

POOL 6

Individual Authors

Cochran 1977
Finke 1966
Larsen & Holzer 1978
Olson & Meyer 1976a

POOL 7

Individual Authors

Finke 1966
Havlik 1978b
Holzer & Ironside 1977
Larsen & Holzer 1978
Nicklaus & Merz 1976
Olson & Meyer 1976a

Agencies

Ill. Dept. Cons. 1962
Miss. Riv. Work Unit
1976
Miss. Riv. Work Unit
1977
Miss. Riv. Work Unit
1978

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 8

Individual Authors

Claflin 1973
Eckblad et al. 1976
Elstad 1977
Havlik 1978b
Held 1975
Larsen & Holzer 1978
Nicklaus & Merz 1976
Olson & Meyer 1976a
Theil 1977

Agencies

Miss. Riv. Work Unit 1976
Miss. Riv. Work Unit 1977
Miss. Riv. Work Unit 1978
Sed. Lab. 1978
Wis. U. of 1975

POOL 9

Individual Authors

Duncan & Esse 1978
Eckblad 1975
Eckblad et al. 1976
Finke 1966
Nicklaus & Merz 1976
Olson & Meyer 1976a
Reis & Wheatley 1978
Ritchie & McHenry 1977
Verdon 1974

Agencies

Miss. Riv. Work Unit
1976
Miss. Riv. Work Unit
1977
Miss. Riv. Work Unit
1978

POOL 10

Individual Authors

Eckblad et al. 1976
Olson & Meyer 1976a

POOL 11

Agencies

Ill. Dept. Cons.
1962
U.S. Army Corps. Eng.
1971
U.S. Army Corps Eng.
1976b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 12

Individual Authors

Bertrand 1974

Agencies

U.S. Army Corps Eng. 1971
U.S. Army Corps Eng. 1976a

POOL 13

Individual Authors

Bertrand 1974

Agencies

Ill. Dept. Cons. 1962
Ill. Dept. Cons. 1973a
U.S. Army Corps Eng. 1971
U.S. Army Corps Eng. 1976b

POOL 14

Individual Authors

Bertrand 1974
Kline & McDonald 1973
McDonald 1977b
McDonald et al. 1972

Agencies

Ia. St. Hyg. Lab. 1971b
U.S. Army Corps Eng. 1971
U.S. Army Corps Eng. 1976b

POOL 15

Agencies

Ia. St. Hyg. Lab.
1969a
U.S. Army Corps Eng.
1971
U.S. Army Corps Eng.
1976b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 16

Individual Authors

Bertrand 1974

Agencies

Ia. St. Hyg. Lab.

1969a

U.S. Army Corps Eng.

1971

U.S. Army Corps Eng.

1976b

POOL 18

Individual Authors

Bertrand 1974

Agencies

Ill. Dept. Cons. 1962

U.S. Army Corps Eng.

1971

U.S. Army Corps Eng.

1976b

POOL 17

Agencies

U.S. Army Corps Eng. 1971

U.S. Army Corps Eng. 1976b

POOL 19

Individual Authors

Bertrand 1974

Bertrand 1976

Agencies

Ia. St. Hyg. Lab. 1969d

U.S. Army Corps Eng.

1971

U.S. Army Corps Eng.

1976b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 20

Agencies

U.S. Army Corps Eng.
1971
U.S. Army Corps Eng.
1976b

POOL 21

Agencies

U.S. Army Corps Eng. 1971
U.S. Army Corps Eng. 1976b

POOL 22

Agencies

U.S. Army Corps Eng.
1971
U.S. Army Corps Eng.
1976b

POOL 24

Agencies

Mo. Bot. Gar. 1975
U.S. Army Corps Eng.
1975

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

POOL 25

Individual Authors

Bertrand & Dunn 1973
Dieffenbach 1969

Agencies

Mo. Bot. Gar. 1975
U.S. Army Corps Eng. 1975

POOL 26

Agencies

Ill. Dept. Cons. 1962
Mo. Bot. Gar 1975
U.S. Army Corps Eng. 1975

III. GEOGRAPHICAL KEYWORDS

ST. ANTHONY FALLS

Individual Authors

Eddy et al. 1963

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III. GEOGRAPHICAL KEYWORDS

UPPER MISSISSIPPI RIVER

Individual Authors

Carlson 1967
 Ellis 1931
 Fremling & McConville 1976
 Greenbank 1950
 Greenbank 1957
 Grimes 1976
 Gross 1973
 Gudmundson et al. 1974
 Havlik 1978b
 Held 1975
 Jordan & Brown 1967
 Karaki & Van Hoften 1974
 Keating 1971
 Limpert & Vose 1976
 Meyer 1975
 Moyle 1940
 Sternberg 1967
 Thimsen & Samuelson 1949
 Wu 1968

Agencies

Anonymous 1965
 Fed. Wat. Poll. Cont. Adm. 1965
 Fed. Wat. Poll. Cont. Adm. 1966
 Fed. Wat. Poll. Cont. Adm. 1967
 Fed. Wat. Qual. Adm. 1964
 Minn. Dept. Health 1953
 Mo. Bot. Gar. 1975
 Mo. Dept. Cons. 1977
 Sed. Lab. 1978
 U.S. Army Corps Eng. 1935a
 U.S. Army Corps Eng. 1935b
 U.S. Army Corps Eng. 1940a
 U.S. Army Corps Eng. 1940b
 U.S. Army Corps Eng. 1941
 U.S. Army Corps Eng. 1947
 U.S. Army Corps Eng. 1948
 U.S. Army Corps Eng. 1964
 U.S. Army Corps Eng. 1976b
 U.S. Army Corps Eng. 1976c
 U.S. Congress, House, Commerce
 Comm. 1867a
 U.S. Congress, House, Commerce
 Comm. 1867b

Agencies (cont.)

U.S. Congress, House,
 Comm. Int. Ins. Aff.
 1972
 U.S. Dept. Int. 1973b
 U.S. Dept. Int. 1977
 U.S. Geol. Surv.
 (Undated)
 Upper Miss. Riv. Comp.
 Basin Study 1970
 Upper Miss. Riv. Cons.
 Comm. 1943
 Upper Miss. Riv. Cons.
 Comm. 1945-1968
 Upper Miss. Riv. Cons.
 Comm. 1948
 Upper Miss. Riv. Cons.
 Comm. 1950c
 Upper Miss. Riv. Cons.
 Comm. 1957
 Upper Miss. Riv. Cons.
 Comm. 1967
 Upper Miss. Riv. Cons.
 Comm. 1969
 Upper Miss. Val. Wat.
 Use Coun. 1945

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III. GEOGRAPHICAL KEYWORDS

UPPER MISSISSIPPI RIVER WILDLIFE AND FISH REFUGE

Individual Authors

Bailey, V. 1930
Green 1947
Green 1960
Green 1963
Uhler (circa 1929)

Agencies

U.S. Dept. Int. 1968
U.S. Dept. Int. 1970
U.S. Dept. Int. 1973b

HAZLETON ENVIRONMENTAL SCIENCES

III. GEOGRAPHICAL KEYWORDS

WAPSIPINICON RIVER

Agencies

U.S. Dept. H.E.W. 1953

III. GEOGRAPHICAL KEYWORDS

WISCONSIN

Individual Authors

Ammerman 1975
Havlik 1977b
Havlik 1977c
Havlik 1978a
Jergens & Childers 1959
Kernan 1951
Kernan 1952a
Kernan 1952b
Woods 1951

Agencies

Fed. Wat. Poll. Cont. Adm. 1967
Fed. Wat. Qual. Adm. 1964
Fed. Wat. Qual. Adm. 1965
Minn. Dept. Cons. 1964
Minn. St. Bd. Health 1928
U.S. Army Corps Eng. (Undated)
U.S. Congress, House. Pub. Works Comm. 1949
U.S. Dept. Int. 1973b
Wis. Dept. Nat. Res. 1891-1947
Wis. Dept. Nat. Res. 1971